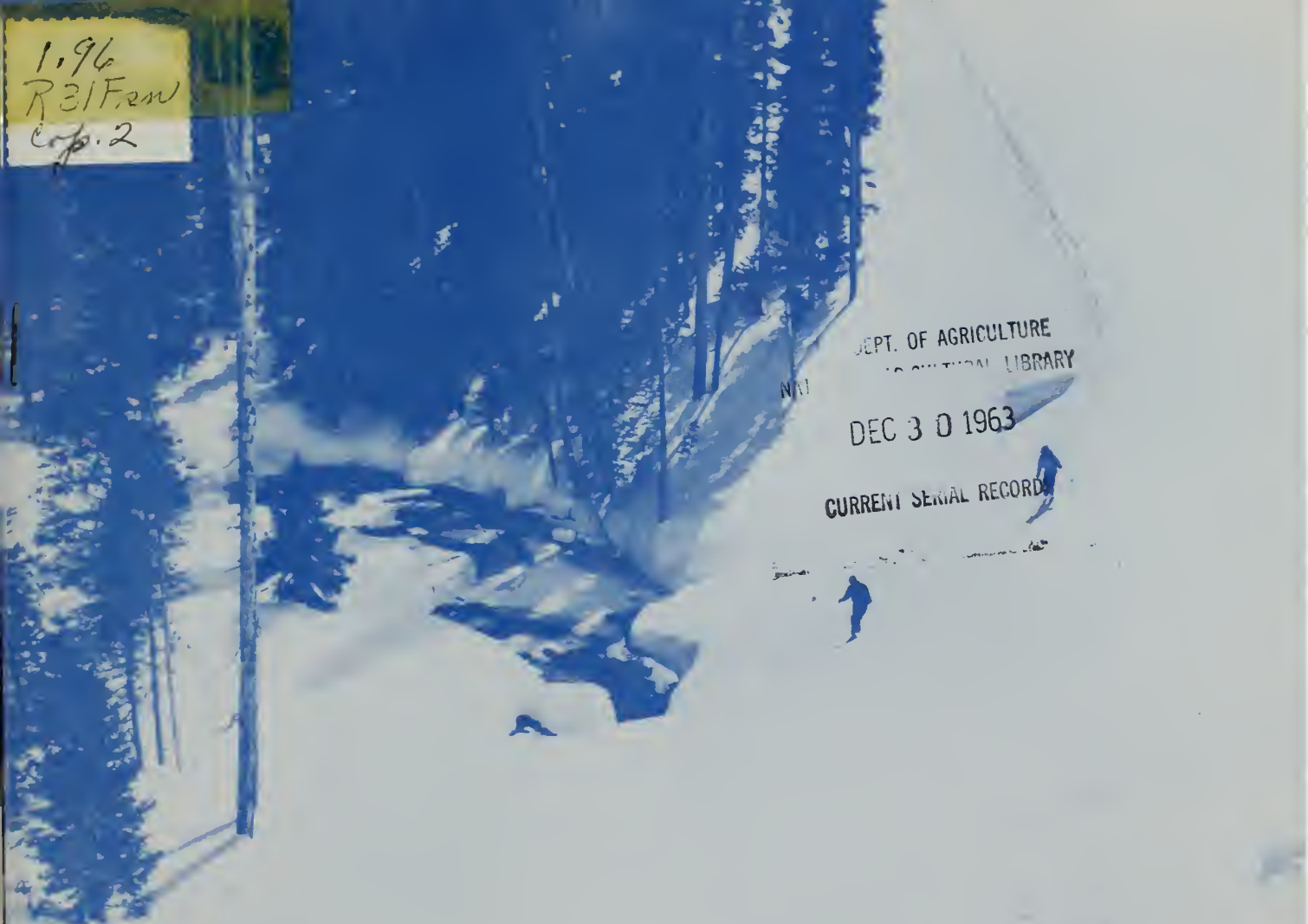


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DEPT. OF AGRICULTURE  
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CURRENT SERIAL RECORD

**WATER SUPPLY OUTLOOK**  
and  
**FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS**  
for  
**NEVADA**

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE.  
and  
NEVADA DEPARTMENT of CONSERVATION and NATURAL RESOURCES  
DIVISION of WATER RESOURCES

Data included in this report were obtained by the agencies named above in cooperation with the Federal, State and private organizations listed on the last page of this report.

AS OF  
**APR. 1, 1963**

# UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

## To Recipients of Water Supply Outlook Reports:

The climate of the cultivated and populated areas of the West is characterized by relatively dry summer months. Such precipitation as occurs falls mostly in the winter and early spring months when it is of little immediate benefit to growing crops. Most of this precipitation falls as mountain snow which stays on the ground for months, melting later to sustain streamflow during the period of greatest demand during late spring and summer. Thus, nature provides in mountain snow an imposing water storage facility.

The amount of water stored in mountain snow varies from place to place as well as from year to year and accordingly, so does the runoff of the streams. The best seasonal management of variable western water supplies results from advance estimates of the streamflow.

A snow survey consists of a series of about ten samples taken with specially designed snow sampling equipment along a permanently marked line, up to 1000 feet in length, called a snow course. The use of snow sampling equipment provides snow depth and water equivalent values for each sampling point. The average of these values is reported as the snow survey measurement for a snow course.

Snow surveys are made monthly or semi-monthly beginning in January or February and continue through the snow season until April, May or June. Currently more than 1400 western snow courses are measured each year. These measurements furnish the key data for water supply forecasts.

Streamflow forecasts are obtained by a comparison of total or maximum snow accumulation, as measured by snow water equivalent, to the subsequent spring and summer or snowmelt season runoff over a period of years. The snow water equivalent measured in selected snow courses provides most of the index to the streamflow forecast for the following season. More accurate forecasts are usually obtained when other factors such as soil moisture, base flow and spring precipitation are considered and included in the forecast procedure. Early season forecasts assume average climatic conditions through the snowmelt season.

Listed below are the Federal-State-Private Cooperative Snow Survey and Water Supply Forecast reports available for the West which contain detailed information on snow survey measurements, streamflow forecasts, reservoir storage, soil moisture and other guide data to water management and conservation decisions. Soil Conservation Service Reports may be secured from Water Supply Forecasting Unit, Soil Conservation Service, P.O. Box 4170, Portland 8, Oregon.

## PUBLISHED BY SOIL CONSERVATION SERVICE

<u>REPORTS</u>	<u>ISSUED</u>	<u>LOCATION</u>	<u>COOPERATING WITH</u>
RIVER BASINS			
WESTERN UNITED STATES	MONTHLY (FEB.-MAY)	PORTLAND, OREGON	ALL COOPERATORS
STATES			
ALASKA	MONTHLY (MAR.-MAY)	PALMER, ALASKA	ALASKA S.C.D.
ARIZONA	SEMI-MONTHLY (JAN.15 - APR.1)	PHOENIX, ARIZONA	SALT R. VALLEY WATER USERS ASSOC. ARIZ. AGR. EXP. STATION
COLORADO AND NEW MEXICO	MONTHLY (FEB.-MAY)	FORT COLLINS, COLORADO	COLO. STATE UNIVERSITY COLO. STATE ENGINEER N. MEX. STATE ENGINEER
IDAHO	MONTHLY (JAN.-JUNE)	BOISE, IDAHO	IDAHO STATE RECLAMATION ENGINEER
MONTANA	MONTHLY (JAN.-JUNE)	BOZEMAN, MONTANA	MONT. AGR. EXP. STATION
NEVADA	MONTHLY (JAN.-MAY)	RENO, NEVADA	NEVADA DEPT. OF CONSERVATION AND NATURAL RESOURCES - DIVISION OF WATER RESOURCES
OREGON	MONTHLY (JAN.-JUNE)	PORTLAND, OREGON	OREG. STATE UNIVERSITY OREGON STATE ENGINEER
UTAH	MONTHLY (JAN.-JUNE)	SALT LAKE CITY, UTAH	UTAH STATE ENGINEER
WASHINGTON	MONTHLY (FEB.-JUNE)	SPOKANE, WASHINGTON	WN. STATE DEPT. OF CONSERVATION
WYOMING	MONTHLY (FEB.-JUNE)	CASPER, WYOMING	WYOMING STATE ENGINEER

## PUBLISHED BY OTHER AGENCIES

<u>REPORTS</u>	<u>ISSUED</u>	<u>AGENCY</u>
BRITISH COLUMBIA	MONTHLY (FEB.-JUNE)	WATER RIGHTS BR., DEPT. OF LANDS, FORESTS AND NATURAL RESOURCES, PARLIAMENT BLDG., VICTORIA, B.C., CANADA
CALIFORNIA	MONTHLY (FEB.-MAY)	CALIF. DEPT. OF WATER RESOURCES, P.O. BOX 388, SACRAMENTO, CALIF.

**WATER SUPPLY OUTLOOK**  
and  
**FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS**  
**for**  
**NEVADA**

*Report prepared by*

MANES BARTON

*and*

ROY E. MALSOR, JR.

SOIL CONSERVATION SERVICE  
1479 SOUTH WELLS AVENUE  
RENO, NEVADA

**APRIL 8, 1963**

*Issued by*

CHARLES W. CLEARY, JR.

STATE CONSERVATIONIST  
SOIL CONSERVATION SERVICE  
RENO, NEVADA

HUGH A. SHAMBERGER

DIRECTOR  
DEPARTMENT OF CONSERVATION AND  
NATURAL RESOURCES  
CARSON CITY, NEVADA



# TABLE OF CONTENTS

	PAGE
ALPHABETICAL INDEX OF NEVADA SNOW COURSES .....	REVERSE SIDE
	TABLE CONTENTS PAGE
MAP AND INDEX OF NEVADA SNOW COURSES (BY BASINS) ....	FACING PAGE 1
WATER SUPPLY OUTLOOK FOR NEVADA .....	1
SUMMARY OF FORECASTS .....	2
SUMMARY OF RESERVOIR STATUS .....	3
GRAPHICAL SNOW COVER COMPARISON .....	PLATE 1
WATER SUPPLY CONDITIONS IN:	
NORTH TRUCKEE, FERNLEY & WASHOE VALLEY SCD'S, WASHOE, STOREY, & LYON COUNTIES .....	PLATE 2
CARSON VALLEY SCD, NEVADA & ALPINE SCD, CALIFORNIA .....	PLATE 3
STILLWATER, SHECKLER, LAHONTAN SCD'S & VICINITY, CHURCHILL COUNTY .....	PLATE 4
SMITH & MASON VALLEY SCD'S, NEVADA & EAST WALKER & MONO COUNTY SCD'S, CALIFORNIA .....	PLATE 5
ESMERALDA SCD, ESMERALDA COUNTY .....	PLATE 6
CENTRAL & SOUTHERN NEVADA, CLARK, LINCOLN, & NYE COUNTIES ....	PLATE 7
WHITE PINE SCD, WHITE PINE, LINCOLN & NYE COUNTIES .....	PLATE 8
CLOVER & RUBY SCD'S ELKO COUNTY .....	PLATE 9
NORTHEAST ELKO SCD, ELKO COUNTY .....	PLATE 10
DUCK VALLEY & OWYHEE SCD'S, ELKO COUNTY .....	PLATE 11
HUMBOLDT RIVER .....	PLATE 12
AUSTIN & EUREKA SCD'S, EUREKA & LANDER COUNTIES .....	PLATE 13
KINGS RIVER, PARADISE VALLEY & QUINN RIVER SCD'S .....	PLATE 14
VYA & GERLACH SCD'S, NEVADA & SURPRISE VALLEY SCD, CALIFORNIA .....	PLATE 15
LIST OF COOPERATORS .....	INSIDE BACK COVER



# ALPHABETICAL INDEX TO NEVADA SNOW COURSES

This alphabetical tabulation of snow courses has been prepared to provide readers with rapid access to basic snow survey data. The reader is referred to the "Index to Nevada Snow Courses by basins" and "Nevada Snow Courses" map on the next page for other detailed information such as location, elevation, basin and sub-basin, state and numbering system legend.

SNOW COURSE	NO.	PLATE	SNOW COURSE	NO.	PLATE
BAKER #1	14L1	8	LAKE LUCILLE	20L4	2
BAKER #2	14L2	8	LANANCE CREEK	17H5	12,14
BAKER #3	14L3	8	LAOUILLE #1	15J4	9,12
BALD MOUNTAIN	19H1	15	LAOUILLE #2	15J5	9,12
BARBER CREEK	20H5	15	LAOUILLE #3	15J6	9,12
BEAR CREEK	19H1MA	11,12	LAOUILLE #4	15J7	9,12
BERRY CREEK	19K2	8	LAOUILLE #5	15J8	9,12
BIG BEND	15H4M	11,12	LAPON MEADOW	18L1	5
BIG CREEK CAMPGROUND	17K1	13	LAUREL DRAW	16H5	11
BIG CREEK MINE	17K2	13	LEAVITT MEADOWS	19L8	5
BIG CREEK, UPPER	17K3	13	LEE CANYON #1	15N4	7
BIRCH CREEK	14K1	8	LEE CANYON #2	15N3	7
BLUE LAKES	19L5	3,4	LEONARD CREEK	18H2	14
BOCA #2	20K14	2,4	LITTLE BALLY MTN.	19H4a	15
BUCKEYE FORKS	19L11	5	LITTLE VALLEY	19K3	2
BUCKEYE ROUGHS	19L10	5	LOUSE CANYON	17G4a	14
BUCKSKIN, LOWER	17H2	12,14	LOWER CORRAL	17L1	7,13
BUCKSKIN, UPPER	17H1	12,14			
CAMPITO MOUNTAIN	18M2	6	MARLETTE LAKE	19K4M	2,3
CARSON PASS, UPPER	19L4	3,4	MARTIN CREEK	17H3	12,14
CAVE CREEK	15J13	8,9,12	MATHEW CANYON	14M1	7
CEAR PASS	20H6	15	MIOAS	16H3	11,12
CENTER MOUNTAIN	19L12A	5	MONTGOMERY PASS	18M1	6
CLARK CANYON	15N2	7	MT. GRANT	18L2	5
CLEAR CREEK	19K5	3,4	MT. ROSE	19K2	2
CORRAL CANYON	15J12	9,12	MURRAY SUMMIT	14K3	8
			OREGON CANYON	17G5a	14
DAGGETTS PASS	19L14	2,3,4			
DENIO CREEK	18G6a	14	PINCHOT CREEK	18M3a	6
DISASTER PEAK	18H1	14	PINE CANYON	14M2	7
DISMAL SWAMP	20H3a	15	PIUTE PASS	18M4a	6
DONNER LAKE #1	20K11	2	POISON FLAT	19L6a	3,4
DONNER PARK #2	20K21	2	POLE CREEK R. S.	15H14	10
DONNER SUMMIT	20K10	2,4			
DORSEY BASIN	15J11	9,12	QUINN RIDGE	17H6a	14
DRY CREEK	15J3	9,12			
			RAINBOW CANYON #2	15N7	7
EAGLE PEAK	20H7	15	REO POINT	15H18a	10
ECHO SUMMIT	20L5	2,3,4	RESERVATION CREEK	20H4	15
			RICHARDSONS #2	20L3	2
FOROYCE LAKE	20K7	2,4	ROBINSON SUMMIT	15K1	8
49-MTN.	19H3	15	ROEO FLAT	15H6M	11,12
FOX CREEK	15H2	11	RUBICON #1	20L1	2
FREL BENCH	19L2	2	RUBICON #2	20L2	2
FRY CANYON	15H7	11,12	RYAN RANCH	15J2	9,12
FURNACE FLAT	20K8	2,4			
GLENBROOK #2	19K6	2,3	SAGE HEN CREEK	20K6	2,4
GOAT CREEK	15H13	10	76 CREEK	15H3A	11,12
GOLCONDA #2	17J2	12	SILVER CREEK #2	14K7	8
GOLD CREEK	15H5	11,12	SONORA PASS	19L7M	3,5
GRANITE PEAK	17H4	12,14	SQUAW VALLEY #2	20K19	2
GREEN MOUNTAIN	15J9	9,12			
			TAHOE CITY	20K16	2,4
HAGANS MEADOW	19L3M	2,4	TAYLOR CANYON	15H9M	11,12
HAGER CANYON	15J14	8,9,12	TIOGA PASS	19M1	5
HARRISON PASS #1	15J10	9,12	TREMEWAN RANCH	15H8	11,12
HARRISON PASS #2	15J11	9,12	TROUGH SPRINGS	15N1	7
HAYS CANYON	19H2	15	TROUT CREEK	18G5a	14
HOLE-IN-MTN.	15J15	9,12	TROUT CREEK, LOWER	15H10	9,12
HUMMINGBIRD SPRINGS	15H15A	10,12	TROUT CREEK, UPPER	15H11	9,12
			TRUCKEE #2	20K13M	2
INDEPENDENCE CAMP	20K4M	2,4			
INDEPENDENCE CREEK	20K3	2	UPPER CORRAL	17L2	7,13
INDEPENDENCE LAKE	20K5	2	UPPER FISH VALLEY	19L16a	3
			UPPER TRUCKEE	19L1	2
JACK CREEK, LOWER	16H1M	11,12			
JACK CREEK, UPPER	16H2	11,12	VIRGINIA LAKES	19L13M	5
JACKS PEAK	16H4	11,12			
JAKES CREEK	14H1	10,13	WARO CREEK	20K17M	2,4
			WARO MOUNTAIN #2	14K5	8
KALAMAZOO CREEK	14K8	8	WEBBER LAKE	20K2	2
KYLE CANYON	15N5	7	WEBBER PEAK	20K1	2
			WHITE RIVER #1	15L1	8
			WILLOW FLAT	19L9	5



# INDEX TO NEVADA SNOW COURSES ( By Basins )

NUMBER NAME SEC. TWP. RGE. ELEV.

## SNAKE RIVER BASIN

SNAKE RIVER				
15H1MA	BEAR CREEK	31	46N	58E 7800
15G4M*	816 BENO	30	45N	56E 6700
15H2	FOX CREEK	33	46N	58E 6800
15H13	GOAT CREEK	31	46N	60E 8800
15H5*	GOLD CREEK	6	45N	56E 6600
15H15A	HUMMINGBIRD SPRINGS	6	42N	60E 8945
14H1	JACKS CREEK	6	42N	62E 7000
15H14	POLE CREEK RANGER STATION	13	46N	59E 8330
15H18a	RED POINT	15	47N	61E 7940
15H3A	76 CREEK	6	44N	58E 7100

OWYHEE RIVER				
15H4M	816 BENO	30	45N	56E 6700
17H2*	BUCKSKIN, LOWER	25	45N	39E 6700
17H1*	BUCKSKIN, UPPER	11	45N	39E 7200
15H7*	FRY CANYON	31	43N	54E 6700
15H5	GOLD CREEK	31	45N	56E 6600
17H4*	GRANITE PEAK	22	44N	39E 7800
16H1M	JACK CREEK, LOWER	18	42N	53E 6800
16H2	JACK CREEK, UPPER	9	42N	53E 7250
16H4	JACKS PEAK	28	42N	53E 8420
16H5	LAUREL ORAW	20	45N	53E 6700
17G4a	LOUSE CANYON (OREG.)	27	40S	44E 6440
17H3*	MARTIN CREEK	18	44N	40E 6700
15H6M*	RODEO FLAT	36	43N	53E 6800
15H9M	TAYLOR CANYON	35	39N	53E 6200
15H8*	TREMEWAN RANCH	9	39N	55E 5700

## INTERIOR

UPPER HUMBOLDT RIVER				
15H1MA*	BEAR CREEK	31	46N	58E 7800
15H4M*	816 BENO	30	45N	56E 6700
15J12	CORRAL CANYON	27	28N	57E 8500
15J1	ORSEY BASIN	28	35N	60E 8100
15J3	ORY CREEK	5	34N	60E 6500
15H2*	FOX CREEK	33	46N	58E 6800
15H7	FRY CANYON	31	43N	54E 6700
15H5*	GOLD CREEK	31	45N	56E 6600
15J9	GREEN MOUNTAIN	23	29N	57E 8000
15J10	HARRISON PASS #1	9	28N	57E 6600
15J11	HARRISON PASS #2	16	28N	57E 7400
16H1M*	JACK CREEK, LOWER	18	42N	53E 6800
16H2*	JACK CREEK, UPPER	9	42N	53E 7250
16H4*	JACKS PEAK	28	42N	53E 8420
15J4	LAMOILLE #1	15	32N	58E 7100
15J5	LAMOILLE #2	14	32N	58E 7300
15J6	LAMOILLE #3	24	32N	58E 7700
15J7	LAMOILLE #4	19	32N	59E 8000
15J8	LAMOILLE #5	31	32N	59E 8700
15H6M	RODEO FLAT	36	43N	53E 6800
15J2	RYAN RANCH	1	34N	59E 5800
15H3A*	76 CREEK	6	44N	58E 7100
15H9M*	TAYLOR CANYON	35	39N	53E 6200
15H8	TREMEWAN RANCH	9	39N	55E 5700
15H10	TROUT CREEK, LOWER	28	37N	61E 6900
15H11	TROUT CREEK, UPPER	4	36N	61E 8500

LOWER HUMBOLDT RIVER				
17K1	816 CREEK CAMP GROUND	10	17N	43E 6600
17K2	816 CREEK MINE	23	17N	43E 7600
17K3	816 CREEK, UPPER	26	17N	43E 8000
17H2	BUCKSKIN, LOWER	25	45N	39E 6700
17H1	BUCKSKIN, UPPER	11	45N	39E 7200
17J2	GOLCONOA #2	22	35N	39E 6000
17H4	GRANITE PEAK	22	44N	39E 7800
17H5	LAMANCE CREEK	13	42N	38E 6000
17L1	LOWER CORRAL	12	11N	40E 7500
17H3	MARTIN CREEK	18	44N	40E 6700
16H3	MIDAS	18	39N	46E 7200
17L2	UPPER CORRAL	20	11N	41E 8500

EASTERN NEVADA				
14L1	BAKER #1	29	13N	69E 7950
14L2	BAKER #2	30	13N	69E 8950
14L3	BAKER #3	25	13N	68E 9250
14K2	BERRY CREEK	26	17N	65E 9100
14K1	BIRO CREEK	34	19N	65E 7500
15J13	CAVE CREEK	25	27N	57E 7500
15J14	HAGER CANYON	34	27N	57E 8000
15J15	HOLE-IN-MTN.	6	35N	61E 7400
14K8	KALAMAZOO CREEK	34	20N	65E 7900
14K3	MURRAY SUMMIT	25	16N	62E 7250
15K1	ROBINSON SUMMIT	34	18N	61E 7600
14K7	SILVER CREEK #2	30	16N	69E 8000
14K5	WARD MOUNTAIN #2	25	15N	62E 7875
15L1*	WHITE RIVER #1	31	13N	59E 7400

CENTRAL GREAT BASIN				
18M2	CAMPITO MTN (CAL.)	19	55	35E 10200
15N2	CLARK CANYON	8	19S	56E 9000
18G6a*	OENIO CREEK (OREG.)	14	41S	34E 6000
18M1	MONTGOMERY PASS	4	1N	33E 7100
18M3a	PINCHOT CREEK	28	1N	33E 9300
18M4a	PIUTE PASS (CAL.)	33	45	33E 11700
15N1	TROUGH SPRINGS	23	18S	55E 8500

NUMBER NAME SEC. TWP. RGE. ELEV.

## NORTHERN GREAT BASIN

19H1	8ALO MOUNTAIN	17	45N	21E 6720
20H5	BARBER CREEK	23	39N	16E 6500
20H6	CEGAR PASS	12	43N	14E 7100
18H1	OISASTER PEAK	8	47N	34E 6500
20H3a	OISMAL SWAMP (CAL.)	31	48N	22E 7000
20H7	EAGLE PEAK	35	40N	15E 8300
19H3	49-MTN	7	42N	19E 6000
19H2	HAYS CANYON	1	39N	18E 6400
18H2	LEONARD CREEK	13	42N	28E 5900
19H4a	LITTLE BALLY MTN	8	45N	19E 6000
17G5a	OREGON CANYON (OREG.)	9	40S	40E 7240
17H6a	QUINN RIDGE	9	47N	41E 6300
20H4	RESERVATION CREEK	12	46N	15E 5900
18G5a*	TROUT CREEK (OREG.)	10	41S	38E 7800

## LAKE TAHOE

19L14	OAGGETTS PASS	19	13N	19E 7350
20L5	ECHO SUMMIT (CAL.)	6	11N	18E 7500
19L2	FREEL BENCH (CAL.)	36	12N	18E 7300
19K6	GLENBROOK #2	13	14N	18E 6900
19L3M	HAGANS MEADOW (CAL.)	36	12N	18E 8000
20L4	LAKE LUCILLE (CAL.)	28	12N	17E 8400
19K4M	MARLETTE LAKE	13	15N	18E 8000
19K2*	MT. ROSE	7	17N	19E 9000
20L3	RICHARSONS #2 (CAL.)	6	12N	18E 6500
20L1	RUBICON #1 (CAL.)	6	13N	17E 8100
20L2	RUBICON #2 (CAL.)	6	13N	17E 7500
20K16	TAHOE CITY (CAL.)	6	15N	17E 6250
19L1	UPPER TRUCKEE (CAL.)	21	12N	18E 6400
20K17M*	WARD CREEK (CAL.)	21	15N	16E 7000

## TRUCKEE RIVER

20K14	BOCA #2 (CAL.)	28	18N	17E 5900
20K11	DONNER LAKE #1 (CAL.)	14	17N	15E 5950
20K21	DONNER PARK #2 (CAL.)	3	16N	16E 6000
20K10*	DONNER SUMMIT (CAL.)	25	17N	14E 6900
20K7*	FOROYCE LAKE (CAL.)	34	18N	13E 6500
20K8*	FURNACE FLAT (CAL.)	10	17N	13E 6600
20K4M	INDEPENDENCE CAMP (CAL.)	34	19N	15E 7000
20K3	INDEPENDENCE CREEK (CAL.)	14	19N	15E 6500
20K5	INDEPENDENCE LAKE (CAL.)	9	18N	15E 8450
19K3	LITTLE VALLEY	17	16N	19E 6300
19K2	MT. ROSE	7	17N	19E 9000
20K6	SAGE HEN CREEK (CAL.)	7	18N	16E 6500
20K19	SQUAW VALLEY #2 (CAL.)	6	15N	16E 7500
20K16*	TAHOE CITY (CAL.)	6	15N	17E 6250
20K13M	TRUCKEE #2 (CAL.)	22	17N	16E 6400
20K17M*	WARD CREEK (CAL.)	21	15N	16E 7000
20K2	WEBBER LAKE (CAL.)	20	19N	14E 7000
20K1*	WEBBER PEAK (CAL.)	30	19N	14E 8000

## CARSON RIVER

19L5	BLUE LAKES (CAL.)	30	9N	19E 8000
19L4	CARSON PASS, UPPER (CAL.)	22	10N	18E 8600
19K5	CLEAR CREEK	6	14N	19E 7300
19L6a	POISON FLAT (CAL.)	25	8N	21E 7900
19L16a	UPPER FISH VALLEY (CAL.)	18	7N	22E 8050

## WALKER RIVER

19L11	BUCKEYE FORKS (CAL.)	20	4N	23E 8500
19L10	BUCKEYE ROUGHS (CAL.)	15	4N	23E 7900
19L12A	CENTER MOUNTAIN (CAL.)	4	3N	23E 9400
18L1	LAPON MEADOW	36	8N	28E 9000
19L8	LEAVITT MEADOWS (CAL.)	4	5N	22E 7200
18L2	MT. GRANT	23	8N	28E 9000
19L7M	SONORA PASS (CAL.)	1	5N	21E 8800
19M1*	TIOGA PASS (CAL.)	30	1N	25E 9900
19L13M	VIRGINA LAKES (CAL.)	5	2N	25E 9500
19L9	WILLOW FLAT (CAL.)	21	5N	23E 8250

## COLORADO

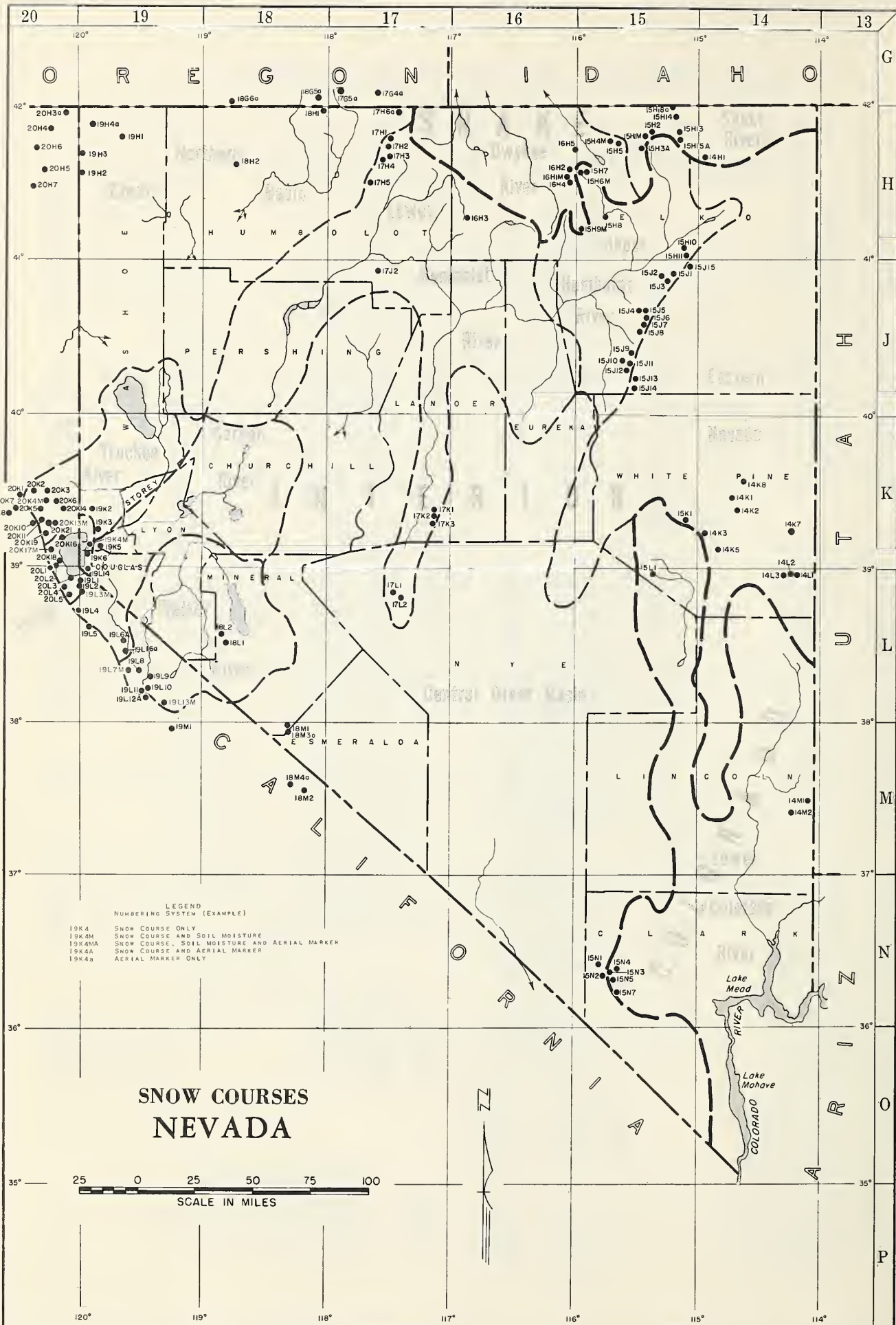
### LOWER COLORADO RIVER

15N5	KYLE CANYON	26	19S	56E 8200
15N4	LEE CANYON #1	10	19S	56E 8300
15N3	LEE CANYON #2	9	19S	56E 9000
14M1	MATHEW CANYON	11	5S	70E 6000
14M2	PINE CANYON	11	6S	69E 6200
15N7	RAINBOW CANYON #2	6	20S	57E 8100
15L1	WHITE RIVER #1	31	13N	59E 7400

LEGEND  
NUMBERING SYSTEM (EXAMPLE)

19K4	SNOW COURSE ONLY
19K4M	SNOW COURSE AND SOIL MOISTURE
19K4MA	SNOW COURSE, SOIL MOISTURE AND AERIAL MARKER
19K4A	SNOW COURSE AND AERIAL MARKER
19K4a	AERIAL MARKER ONLY

\* LOCATED ON ADJACENT WATERSHED





WATER SUPPLY OUTLOOK  
FOR NEVADA

April 1, 1963

\* \* \* \* \*

\* April 1, 1963 snow survey data indicate that Nevada's 1963 irri- \*  
\* gation season water supply will be extremely short in many \*  
\* areas. March storms, particularly those which occurred the last \*  
\* few days of March, improved the mountain snowpack; but not \*  
\* enough to offset the poor snowpack conditions which prevailed on \*  
\* March 1. \*  
\* \* \* \* \*

\* Water users served from natural streamflow will have a much below \*  
\* average irrigation water supply. Smaller streams throughout the \*  
\* State will peak early and recede in flow rapidly. Users served \*  
\* totally, or in part, from reservoir stored water will have a \*  
\* reasonably adequate water supply. \*  
\* \* \* \* \*

\* Reservoir storage is good except for Lake Tahoe and Rye Patch \*  
\* which can only be rated as fair. Because of heavy stored water \*  
\* demand to augment natural streamflow, Nevada's reservoirs will \*  
\* most likely contain below average carryover water this fall for \*  
\* use in 1964. \*  
\* \* \* \* \*

\* Nevada's April-July streamflow forecasts range from 11 to 23 \*  
\* percent of average in the Snake River Basin, 14 to 54 percent \*  
\* in the Humboldt River Basin, 49 to 54 percent in the Walker \*  
\* River Basin, 16 to 37 percent in the Carson River Basin to \*  
\* 27-29 percent in the Tahoe-Truckee River Basins. \*  
\* \* \* \* \*

\* Conservation of water for maximum benefits within the limits of \*  
\* the available water supply and the flexibility of the water users \*  
\* cropping patterns, or other water use, is strongly recommended. \*  
\* \* \* \* \*

STREAMFLOW FORECASTS

April-July 1963 streamflow forecasts in the Tahoe-Truckee River Basins are slightly higher than those given in last month's report due to a very slight improvement in the snowpack water content. The last time flows this low were observed was in the early 1930's. Lake Tahoe is forecast to rise 0.40 foot from April 1 assuming gates closed. This is only 27 percent of average. By utilizing reservoir stored water the Truckee Basin Water Committee anticipates that the Floriston rate of 500 cfs can probably be maintained through September.

Streams in the Carson River Basin are expected to have flows similar to the last drought year - 1961. April-July 1963 streamflow will range from 33 to 37 percent of average at the headwater stations on the west and east fork Carson to 16 percent of average at Ft. Churchill where the Carson River enters Lahontan reservoir.

Walker River streams are forecast at 49 to 54 percent of average.

Humboldt and Snake Basin irrigation season streamflow forecasts are extremely low, due to record or near record low mountain snowpack. The Owyhee is expected

to flow only 11-17 percent of average, South Fork Humboldt - 23 percent, Lamoille - 54 percent, Humboldt at Palisade - 18 percent and Martin Creek - 24 percent during April-July. These values are comparable to, or exceed in severity, previous low years such as 1959 and 1961.

#### RESERVOIR STORAGE

Stored water in Nevada's principal reservoirs is the best since late summer 1959 due to 1962 carryover and mid winter 1963 flood flows. Wild Horse, Boca, Lahontan, Topaz and Bridgeport Reservoirs hold above average April 1 contents. Lake Tahoe and Rye Patch are below average but are much improved over their April 1, 1961 and 1962 contents.

Of necessity, reservoir stored water will have to be used in large quantities to help carry water users through this spring and summer. Many will have been drawn to near dead storage levels by fall.

Any water that can be saved without adverse effect to this year's crops will be most valuable as carryover storage next year.

#### SOIL MOISTURE CONDITIONS

Mountain soil moisture conditions are variable around the State. Except for southern Nevada soils at median mountain elevations are well wetted. High mountain elevation soils are damp to wet and in the Humboldt River and White Pine County areas some snowmelt water will be lost to soil priming.

Spring range forage growth should be fair to good except in southern Nevada where more spring rainfall is needed.

#### SNOW COVER

Although March snowfall increased the mountain snowpack in some areas above previous record low April 1 values, the April 1, 1963 Nevada mountain snowpack is exceedingly poor. The winter of 1963 has been alternately cold and dry, warm and wet and cold and wet.

Following the cold dry spell in November, December and most of January, the little snow that had accumulated was washed away by the warm heavy rains of January 28-February 2. Since that time, the mountain snowpack has rebuilt but not at a rate sufficient to overcome the early season deficiencies and losses.

By basins, the April 1, 1963 snowpack as percent of average, based on key snow courses, was as follows: Tahoe-Truckee, 26%; Walker, 69%; Carson, 43% and Humboldt, 44%.

#### WATER CONSERVATION

Water users are urged to make the best possible use of their 1963 spring-summer water supply. Water conservation practices found to be effective in the recent previous drought years of 1959, 1960 and 1961 merit consideration and readoption where feasible.

# NEVADA STREAMFLOW FORECASTS - April 1, 1963

The following summarized runoff forecasts are based principally on mountain snow cover and the assumption that precipitation and temperature will be near average from the present time to the end of the forecast period. Appreciable deviations from normal of temperature and/or precipitation will correspondingly modify these forecasts.

Basin and Forecast Stream	April-July, Streamflow Thousands Acre Feet				
	Forecast 1963	15-Yr. Av. 1943-57	1963 as % of 15-Yr.Av.	Measured Runoff 1962	1961

## TRUCKEE RIVER

Lake Tahoe <sup>1, 3,</sup>	0.40	1.50	27	1.22	0.67
Little Truckee River above Boca, California <sup>3</sup>	25	86	29	99	27
Truckee River at Farad, Cal. <sup>2, 3</sup>	75	255	29	261	105

## CARSON RIVER

West Carson at Woodfords, Cal.	18	54	33	53	22
East Carson nr. Gardnerville, Nev.	70	189	37	192	87
East Carson nr. Gardnerville, Nev. (Date of 200 c.f.s. flow)	6/25	7/22	--	7/26	6/28
Carson River nr. Carson City, Nev.	40	184	22	186	46
Carson River at Ft. Churchill, Nev.	27	171	16	167	27

## WALKER RIVER

West Walker below E. Fk. nr. Coleville, Cal.	80	148	54	155	72
East Walker nr. Bridgeport, Cal. <sup>4</sup>	30	61	49	69	15

## COLORADO RIVER

Virgin River at Virgin, Utah <sup>5</sup>	15	44	34	57	17
-------------------------------------------	----	----	----	----	----

(Continued)



NEVADA STREAMFLOW FORECASTS - April 1, 1963 (Continued)

Basin and Forecast Stream	April-July, Streamflow Thousands Acre Feet				
	Forecast 1963	15-Yr. Av. 1943-57	1963 as % of 15-Yr.Av.	Measured Runoff 1962	1961
<u>HUMBOLDT RIVER</u>					
So. Fk. Humboldt nr. Elko, Nev.	17	74	23	97	39
Lamoille Creek nr. Lamoille, Nev.	15	28	54	32	17
Humboldt River at Palisade, Nev.	40	225	18	267	51
Humboldt River at Comus, Nev.	20	143	14	224	29
Martin Creek nr. Paradise, Nev.	4	17	24	21	6
<u>SNAKE RIVER</u>					
Owyhee River nr. Gold Creek, Nev. <sup>6</sup>	3	27	11	29	2
Owyhee River nr. Owyhee, Nev. <sup>6</sup>	15	86	17	85	17
Salmon Falls Creek nr. San Jacinto, Nevada <sup>7</sup>	20 19	88 85	23 23	118 115	26 24
<u>SURPRISE VALLEY</u>					
Mill Cr. nr. Cedarville, Cal. <sup>8</sup>	2.6	6.1	43	3.6	3.6
Cedar Cr. nr. Cedarville, Cal. <sup>8</sup>	1.8	4.2	43	2.4	2.0
Eagle Cr. nr. Eagleville, Cal. <sup>8</sup>	2.8	5.8	48	4.1	3.6

1. Maximum rise, in feet, from April 1, assuming gates closed.
2. Exclusive of Tahoe and corrected for storage in Boca Reservoir.
3. Forecast issued by Truckee Basin Water Committee, composed of Truckee-Carson Irrigation District, Sierra Pacific Power Company and Washoe County Water Conservation District.
4. For period April through August corrected for storage in Bridgeport Reservoir.
5. April-June forecast; issued by SCS, Salt Lake City, Utah.
6. Corrected for storage in Wild Horse Reservoir.
7. March-Sept. and March-July forecasts respectively; issued by SCS, Boise, Idaho.
8. April-Sept. forecast; coordinated forecast of SCS and California Dept. of Water Resources, Snow Survey Units.



NEVADA

STATUS OF RESERVOIR STORAGE

APRIL 1, 1963

BASIN AND STREAM	RESERVOIR	USABLE CAPACITY (1000 AF)	USABLE STORAGE - 1000 ACRE FEET			
			1963	1962	1961	APRIL 1 15-YR. AVE. 1943-57
Owyhee	Wild Horse	33	21	24	17	17
Lower Humboldt	Rye Patch	179	84	47	13	115
Colorado	Mohave	1,810	1,703	1,707	1,684	1,492*
Colorado	Mead	27,217	21,864	18,041	18,212	16,437
Tahoe	Tahoe	732	263	89	109	473
Truckee	Boca	41	38	3	11	9
Carson	Lahontan	286	262	107	107	229
West Walker	Topaz	59	59	25	15	45
East Walker	Bridgeport	42	42	23	13	35

\* 1950-57

TOTAL RESERVOIR STORAGE

Developed from Wild Horse, Rye Patch, Tahoe, Boca, Lahontan, Topaz  
and Bridgeport Reservoirs in 1000's Acre Feet

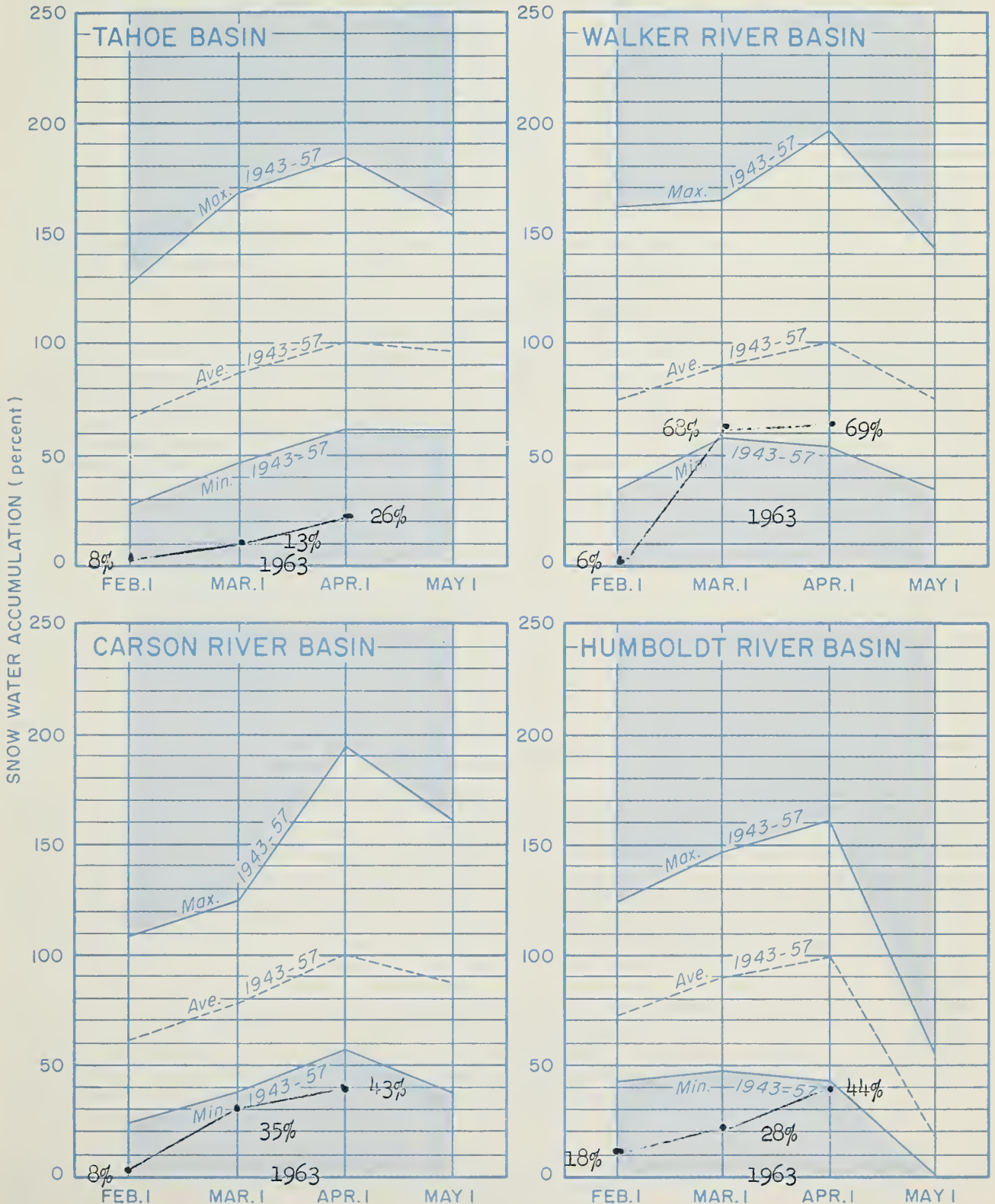
MONTH	1958-59	1959-60	1960-61	1961-62	1962-63	AVERAGE 1943-57
October 1	985	489	263	65	345	732
January 1	890	367	206	57	419	787
February 1	947	398	218	73	558	842
March 1	1,038	494	254	210	696	877
April 1	1,066	592	285	318	769	923
May 1	1,036	632	300	499		971

TOTAL USABLE CAPACITY 1,372



# SNOW WATER ACCUMULATION in NEVADA by BASIN

APRIL 1, 1963



NOTE: The percentages shown are based on key snow courses within each basin.

APRIL 1 1963

1000

8

1

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

Plate 1  
 Percentages shown on key show no more than each bar

# SNOW SURVEY & WATER SUPPLY FORECAST

NORTH TRUCKEE, FERNLEY & WASHOE VALLEY S.C.D.'s.

WASHOE, STOREY & LYON COUNTIES, NEVADA



The water supply outlook improved very slightly during March in the Tahoe-Truckee basins. Lake Tahoe inflow and Truckee River forecasts of April-July 1963 stream-flow are less than 30 percent of average which is similar to the early 1930's.

March snowfall was normal to slightly above normal; but was not sufficient to offset the extremely poor March 1 snowpack. High elevation snow courses are 40-50 percent of the April 1 average while at median elevations the snowpack is 10-30 percent.

The Truckee Basin Water Committee forecasts that Lake Tahoe should rise 0.40 foot from April 1 through the runoff season assuming gates closed, which would raise the Lake to 6,225.57 feet. Donner and Independence Lakes are expected to fill. Boca Reservoir contains 38,000 acre feet, only 3,000 acre feet short of capacity. Lake Tahoe is expected to fall to its rim elevation (6,223.0) by November or December, 1963.

The Truckee at Farad is forecast to flow 75,000 acre feet and Little Truckee above Boca at 25,000 acre feet. The Committee estimates that the Floristan rate of 500 c.f.s. probably can be maintained through September.

Water users are urged to conserve water to whatever extent is possible.



## STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE
Boca	41	38	3	9
Lake Tahoe	732	263	89	473

## NOTE:

All averages based on 1943-1957  
15 year period. The forecast period  
is from April 1 through July 31.

\* 1943-57 adjusted average

## APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE
1. Little Truckee River above Boca	25	99	86
2. Truckee River at Farad, Calif.	75	261	255
3. Lake Tahoe rise (In ft. from Apr. 1, assuming gates closed)	.40	1.22	1.50

Note: Above forecasts prepared by  
Truckee Basin Water Committee

## SNOW

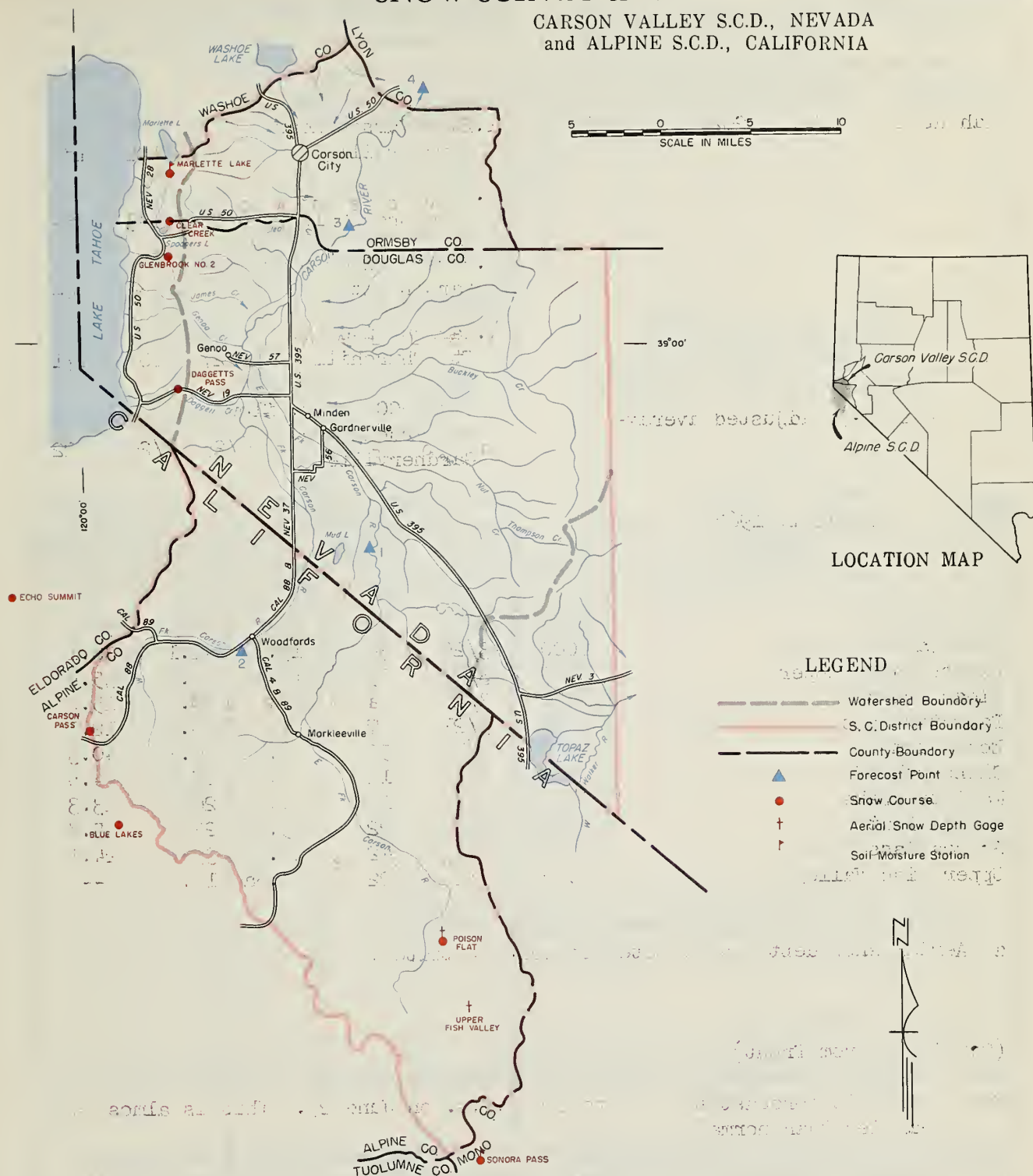
APRIL 1, 1963

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	ELEVATION				LAST YEAR	AVERAGE
LAKE TAHOE						
Daggetts Pass	7350	3/27	T	T	18.1	12.1
Echo Summit	7500	4/1	50	8.5	46.3	40.3
Freel Bench	7300	3/28	23	2.5	22.5	11.4*
Glenbrook #2	6900	3/23	11	3.0	17.6	14.5
Hagans Meadow	8000	3/28	33	6.6	26.2	19.0*
Lake Lucille	8400	3/24	89	29.9	69.6	62.9
Little Valley	6300	3/27	1	0.3	15.2	8.4
Marlette Lake	8000	3/27	18	7.0	26.9	23.3
Richardsons #2	6500	3/23	12	1.8	26.6	17.8*
Rubicon #1	8100	3/31	103	33.4	55.1	50.2*
Rubicon #2	7500	3/31	47	11.4	37.1	31.5*
Tahoe City	6250	3/29	16	2.9	20.0	11.4
Upper Truckee	6400	3/28	15	1.4	18.3	7.4*
Ward Creek	7000	3/29	52	13.2	52.5	48.2*
TRUCKEE RIVER						
Boca #2	5900	4/1	T	T	10.1	5.2*
Donner Park #2	6000	4/1	28	6.6	29.4	--
Donner Summit	6900	3/25	25	6.1	48.5	39.7
Fordyce Lake	6500	3/25	29	6.9	52.8	41.2
Furnace Flat	6600	3/25	32	8.0	65.0	47.6*
Independence Camp	7000	4/1	26	6.2	30.0	24.2
Independence Creek	6500	4/1	17	3.7	21.6	15.5
Independence Lake	8450	4/1	89	27.4	45.4	41.9
Mt. Rose	9000	3/29	77	28.0	35.8	34.9
Sage Hen Creek	6500	4/1	24	5.0	26.1	18.9
Squaw Valley #2	7500	3/26	57	19.4	59.4	50.6*
Truckee #2	6400	4/2	21	4.7	23.1	17.1*
Webber Lake	7000	Report delayed			39.8	33.9
Webber Peak	8000	Report delayed			54.9	43.9



# SNOW SURVEY & WATER SUPPLY FORECAST

CARSON VALLEY S.C.D., NEVADA  
and ALPINE S.C.D., CALIFORNIA



APRIL 1, 1963

Storms during March slightly improved the water supply outlook for Carson Valley water users this coming irrigation season. April-July 1963 streamflow forecasts have been raised a small amount over the values given last month. The outlook still remains similar to the 1961 irrigation season.

East Carson near Gardnerville is forecast to flow 70,000 acre feet during April-July which is 37 percent of average. The West Carson should flow 18,000 acre feet (33 percent average) during the same period.

(Over)

**STORAGE (1,000 Ac. Ft.)**

**APRIL - JULY RUNOFF (1,000 Ac. Ft.)**

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE
Lahontan	286	262	107	229

All averages based on 1943-1957  
15 year period. The forecast period  
is from April 1 through July 31.

\* 1943-57 adjusted average

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE
1. East Carson near Gardnerville	70	192	189
2. West Carson at Woodfords, Calif.	18	53	54
3. Carson River near Carson City	40	186	184
4. Carson River at Ft. Churchill	27	167	171
Date 200 c.f.s. flow E. Carson near Gardnerville	6/25	7/26	7/22

## SNOW

APRIL 1, 1963

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
					LAST YEAR	AVERAGE
Blue Lakes	3000	3/26	30	13.2	42.1	36.1
Carson Pass, Upper	8600	3/25	55	18.5	44.8	35.4
Clear Creek	7300	3/27	4	1.5	20.3	15.0*
Daggetts Pass	7350	3/27	T	T	18.1	12.1
Echo Summit	7500	4/1	50	8.5	46.3	40.3
Glenbrook #2	6900	3/23	11	3.0	17.6	14.5
Marlette Lake	8000	3/27	18	7.0	26.9	23.3
Poison Flat	7900	4/2	22	5.5a	23.6a	15.8
Sonora Pass	8800	3/26	42	14.8	33.4	24.1
Upper Fish Valley	8050	4/2	22	5.5a	19.6a	--

a Aerial snow depth gage; water content estimated.

(Continued from front)

East Carson is forecast to drop to 200 c.f.s. on June 25. This is almost a month earlier than normal.

Carson near Carson City is forecast to flow 40,000 acre feet during April-July and at Ft. Churchill the flow is anticipated to be 27,000 acre feet.

Lahontan Reservoir held 262,000 acre feet on March 31, 1963. This is 115 per cent of the 1943-57 average and only 24,000 acre feet less than the usable capacity of 286,000 acre feet.

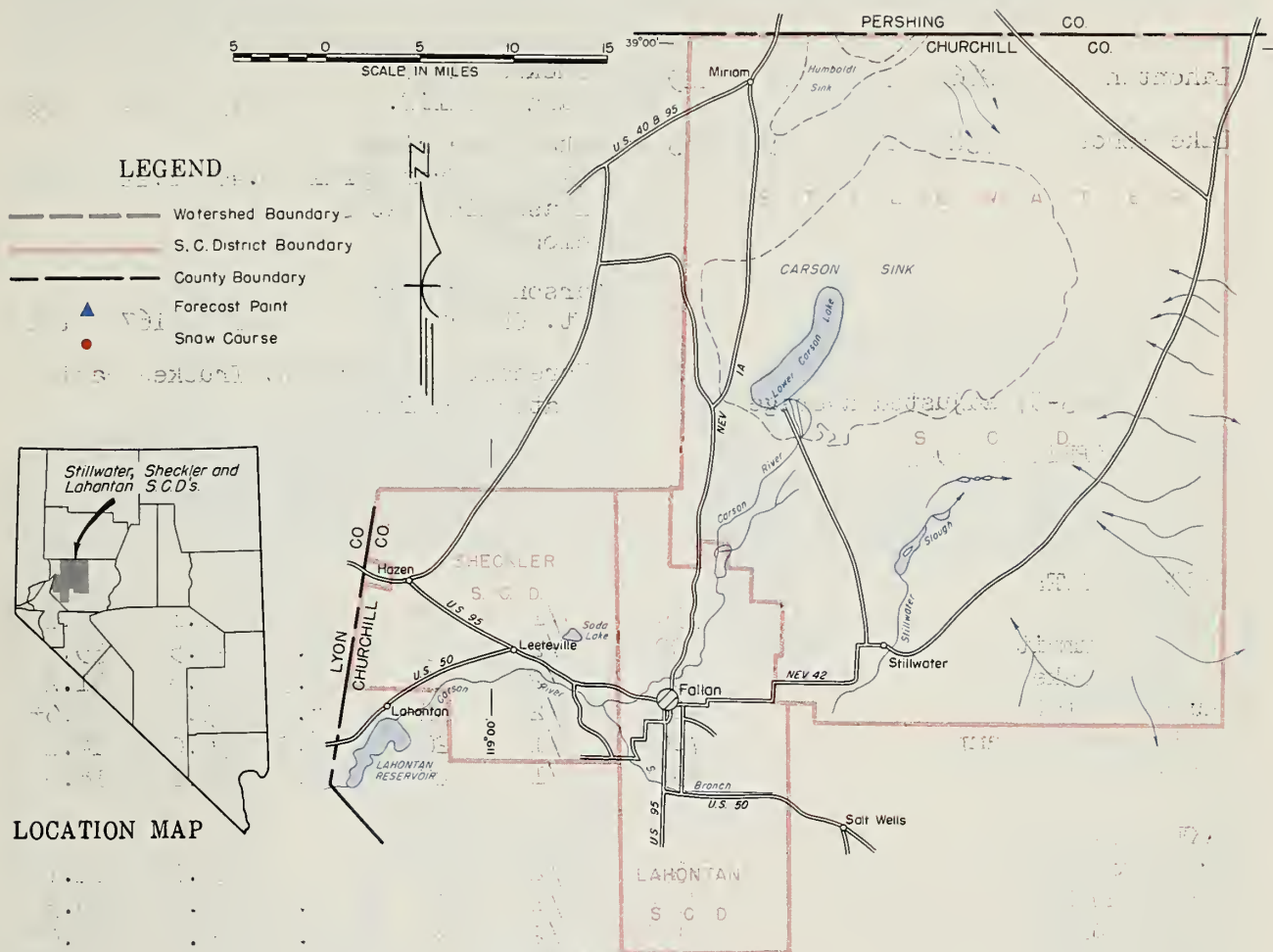
In aggregate Carson River mountain snowpack is about 35 percent of the April 1 average.

Water users should manage their 1963 irrigation water supply carefully for maximum efficiency.

# SNOW SURVEY & WATER SUPPLY FORECAST

STILLWATER, SHECKLER, LAHONTAN S.C.D.'s. & VICINITY

CHURCHILL COUNTY, NEVADA



The water supply outlook has improved slightly in the Tahoe-Truckee-Carson watersheds due to an above normal March snowfall of 125 percent in the Tahoe and 150 percent in the Truckee basins. April 1, 1963 mountain snow is still much below normal ranging from 40-50 percent average at high elevations to 10-30 percent of average at median elevations.

Lahontan gained 24,000 acre feet during March and now holds 262,000 acre feet which is 115 percent of its April 1, 1943-57 average. Lake Tahoe was at 6,225.17 on March 31, 1963. This represents 263,000 acre feet of usable stored water.

Water users in the Fallon area will have a fair irrigation water supply with Tahoe and Lahontan stored water offsetting the below average April-July 1963 natural streamflow.

Lake Tahoe is forecast to rise 0.40 foot from April 1 assuming gates closed. The Truckee Basin Water Committee forecasts that the Floristan rate of 500 c.f.s. can probably be maintained through September. Lake Tahoe is expected to be at its rim elevation of 6223.0 feet sometime during November or December, 1963.

April-July 1963 flow of Carson at Ft. Churchill is forecast at 27,000 acre feet or 16 percent average. Truckee at Farad is expected to flow 75,000 acre feet (27 percent average) during the same time period.



## STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE
Lahontan	286	262	107	229
Lake Tahoe	732	263	89	473

## NOTE:

All averages based on 1943-1957  
15 year period. The forecast period  
is from April 1 through July 31.

\* 1943-57 adjusted average

## APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE
Truckee River at Farad, Calif.*	75	261	255
Lake Tahoe rise* (In ft. from April 1 assuming gates closed)	0.40	1.22	1.50
Carson River at Ft. Churchill	27	167	171

\*Forecasts prepared by Truckee Basin Water Committee

## SNOW APRIL 1, 1963

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	ELEVATION				LAST YEAR	AVERAGE
TRUCKEE RIVER						
Boca #2	5900	4/1	T	T	10.1	5.2*
Donner Summit	6900	3/25	25	6.1	48.5	39.7
Fordyce Lake	6500	3/25	29	6.9	52.8	41.2
Furnace Flat	6600	3/25	32	8.0	65.0	47.6*
Independence Camp	7000	4/1	26	6.2	30.0	24.2
Sage Hen Creek	6500	4/1	24	5.0	26.1	18.9
LAKE TAHOE						
Daggetts Pass	7350	3/27	T	T	18.1	12.1
Echo Summit	7500	4/1	50	8.5	46.3	40.3
Hagans Meadow	8100	3/28	33	6.6	26.2	19.0*
Tahoe City	6250	3/29	16	2.9	20.0	11.4
Ward Creek	7000	3/29	52	13.2	52.5	48.2*
CARSON RIVER						
Blue Lakes	8000	3/26	30	13.2	42.1	36.1
Carson Pass, Upper	8600	3/25	55	18.5	44.7	35.4
Clear Creek	7300	3/27	4	1.5	20.3	15.0
Poison Flat	7900	4/2	22	5.5a	23.6a	15.8

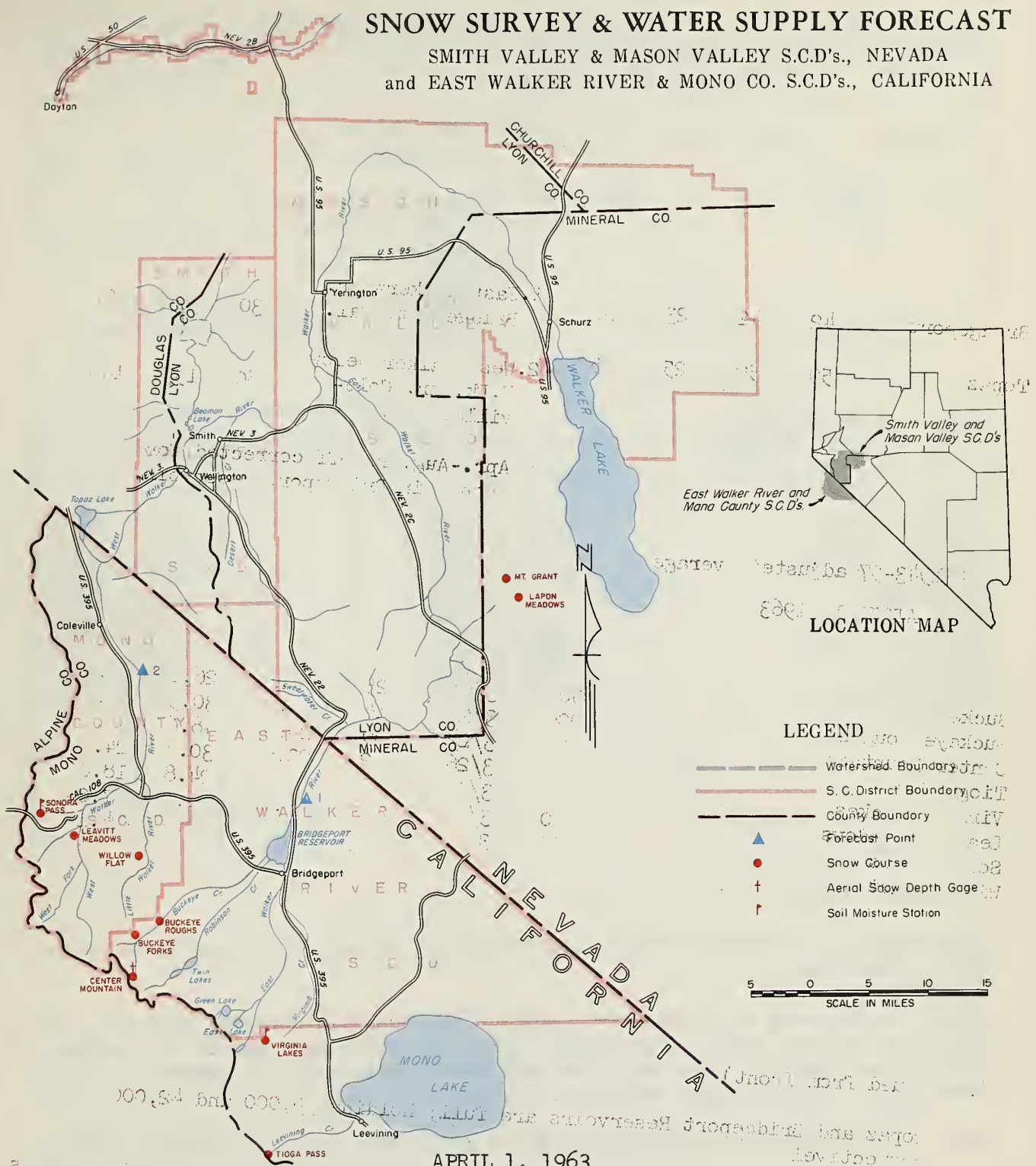
a Aerial snow depth gage; water content estimated.

(Continued from front)

Water users should carefully manage their irrigation water. Any water that can be saved without adverse affect to this year's crops will be most valuable as carryover storage next year.

# SNOW SURVEY & WATER SUPPLY FORECAST

SMITH VALLEY & MASON VALLEY S.C.D.'s., NEVADA  
and EAST WALKER RIVER & MONO CO. S.C.D.'s., CALIFORNIA



APRIL 1, 1963

March snowfall did not improve the irrigation season water supply outlook for Walker River water users. Taking into account the storms which have occurred since the snow surveys were made, it appears that March snowfall was normal. Accordingly the forecasts made last month still hold, since normal March snow water accumulation was assumed.

The East Walker near Bridgeport is forecast to flow 30,000 acre feet during April-August, which is 49 percent of average. The West Walker near Coleville is forecast to flow 80,000 acre feet during April-July or 54 percent of average.

Plate 5

(Over)

## STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE
Bridgeport	42	42	23	35
Topaz	59	59	25	45

## NOTE:

All averages based on 1943-1957  
15 year period. The forecast period  
is from April 1 through July 31.

\* 1943-57 adjusted average

## APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE
1. East Walker* nr. Bridgeport, Cal.	30	69	61
2. West Walker below E. Fk. nr. Cole- ville, Cal.	80	155	148

\* Apr.-Aug. runoff corrected for  
change in Bridgeport Reservoir.

## SNOW

APRIL 1, 1963

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	ELEVATION				LAST YEAR	AVERAGE
Buckeye Forks	8500	3/21	25	10.1	26.6	20.2*
Buckeye Roughs	7900	3/21	16	7.2	30.5	20.4
Center Mountain	9400	3/22	69	24.6	48.6	38.3*
Tioga Pass	9900	3/26	62	23.9	30.8	24.9
Virginia Lakes	9500	3/25	39	13.9	24.8	18.0*
Leavitt Meadows	7200	3/26	3	1.1	17.8	7.0*
Sonora Pass	8800	3/26	42	14.8	33.4	24.1
Willow Flat	8250	3/25	13	6.5	17.1	10.3*

(Continued from front)

Both Topaz and Bridgeport Reservoirs are full; holding 59,000 and 42,000 acre feet respectively.

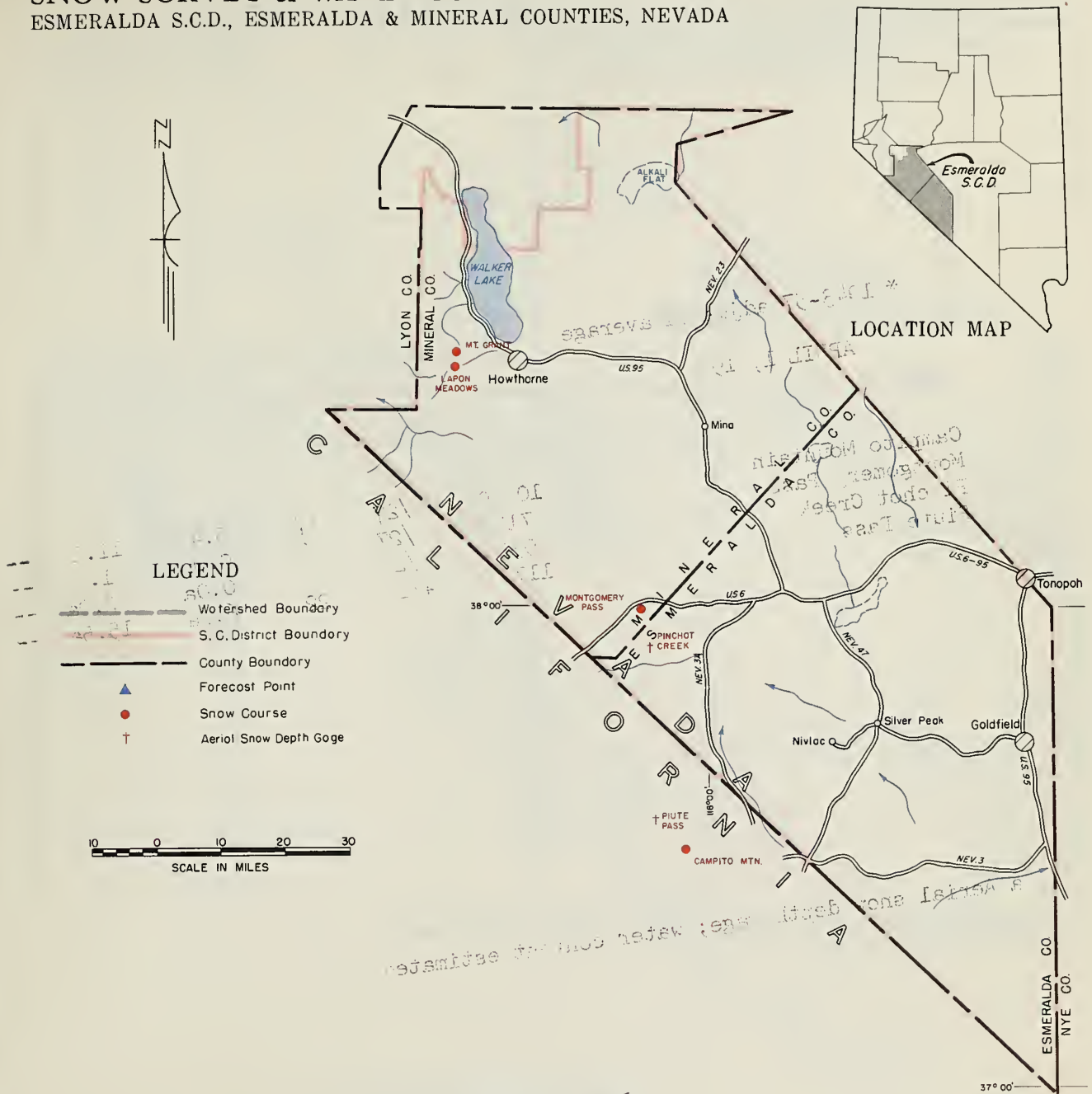
Storms in the last 7-10 days have improved the mountain snowpack from the values shown in the snow table. The higher courses probably have gained 2-4 inches of water since they were measured. As previously indicated this increase has been taken into account in the streamflow forecasts.

Water users should carefully manage their irrigation water for maximum efficiency.



# SNOW SURVEY & WATER SUPPLY FORECAST

## ESMERALDA S.C.D., ESMERALDA & MINERAL COUNTIES, NEVADA



Snow survey measurements in the White Mountains indicate good snow cover at higher elevations and none at the lower. Snowpack in adjacent watersheds in California is about average. This is one of the "better" snowpack areas in the state this year.

Soils are partially wetted and will require some snowmelt water before runoff occurs. Groundwater recharge in Fish Lake Valley should be fair to good this year. Spring season runoff will be fair to good.

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE

NOTE:

All averages based on 1943-1957  
15 year period. The forecast period  
is from April 1 through July 31.

\* 1943-57 adjusted average

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE

SNOW

APRIL 1, 1963

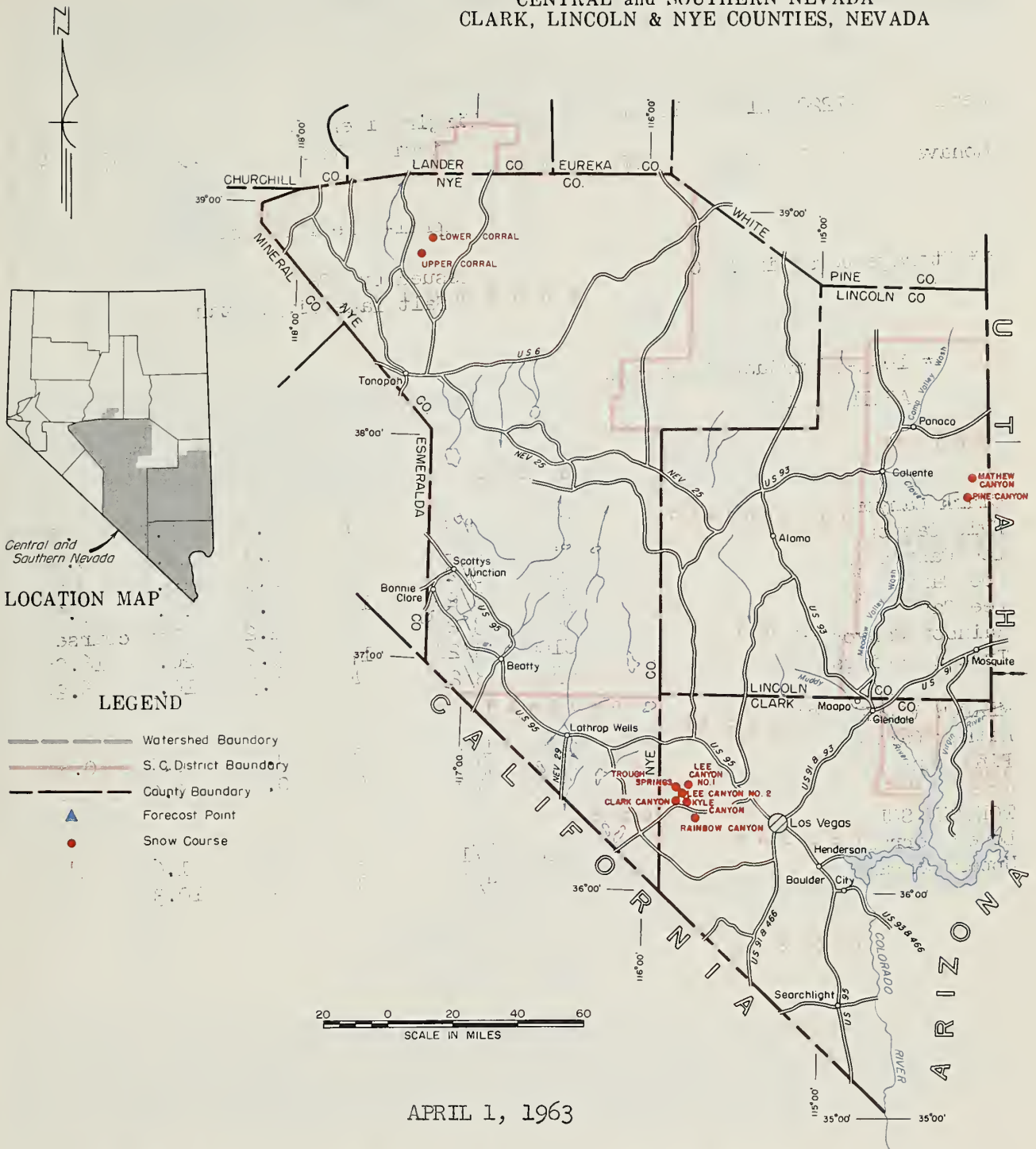
SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (inches)	WATER CONTENT (inches)	WATER CONTENT (inches)	
NAME	ELEVATION				LAST YEAR	AVERAGE
Campito Mountain	10200	3/27	17	5.4	11.1	--
Montgomery Pass	7100	3/27	0	0.0	1.9	--
Pinchot Creek	9300	4/2	0	0.0a	0.0a	--
Piute Pass	11700	4/2	22	6.6a	15.5a	--

a Aerial snow depth gage; water content estimated.

APRIL 1, 1963  
Measurements in the White Mountains are based on snow cover  
thickness and not on the lower, snow-free adjacent water-  
table is about average. This is one of the "better" snow-  
water content and will require some snowmelt water before  
groundwater recharge in Fish Lake Valley should be fair  
and spring season runoff will be fair to good.

# SNOW SURVEY & WATER SUPPLY FORECAST

CENTRAL and SOUTHERN NEVADA  
CLARK, LINCOLN & NYE COUNTIES, NEVADA



Southern Nevada snowpack in the Spring Mountains near Las Vegas is 30 percent of average according to recent April 1, 1963 snow survey measurements. Ground water recharge in this area is expected to be poor this year.

The Virgin River at Virgin, Utah is forecast to flow 15,000 acre feet during April-June which is 34 percent of average. Water users in the Mesquite-Bunkerville area served by the Virgin River can expect a poor irrigation water supply. In the Virgin headwaters the snowpack is poor, being 19 percent of average with only fair soil moisture conditions.

Snow courses at Pine and Mathew Canyons in Meadow Valley Wash are bare.

**STORAGE (1,000 Ac. Ft.)**

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE
Mead	27220	21864	18041	16440
Mohave	1810	1703	1707	1490**
** Storage began in 1950				

\*\* Storage began in 1950

NOTE:

All averages based on 1943-1957 15 year period. The forecast period is from April 1 through July 31.

\* 1943-57 adjusted average

**APRIL - JULY RUNOFF (1,000 Ac. Ft.)**

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE
Virgin River at Virgin, Utah	15	57	44
April-June forecast			
Issued by SCS			
Salt Lake City, Utah			

Issued by SCS

Salt Lake City, Utah

SNOW - APRIL 1, 1963

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
					LAST YEAR	AVERAGE
Clark Canyon	9000	3/29	7	2.5	13.7	8.5*
Kyle Canyon	8200	3/28	9	2.7	20.1	9.5*
Lee Canyon #1	8300	3/28	5	1.9	16.9	8.0
Lee Canyon #2	9000	3/28	15	3.8	18.8	9.6*
Lee Canyon #3	8400	3/28	6	2.2	New course	
Rainbow Canyon #2	8100	3/28	17	5.6	26.1	16.0*
Trough Springs	8500	3/29	4	1.5	10.9	6.2*
MEADOW VALLEY SCD						
Mathew Canyon	6200	4/1	0	0.0	0.0	0.5*
Pine Canyon	6000	4/1	0	0.0	0.0	0.8*
TONOPAH SCD						
Lower Corral	7500	4/1	0	0.0	1.6	1.4*
Upper Corral	8500	4/1	0	0.7	10.3	3.6*

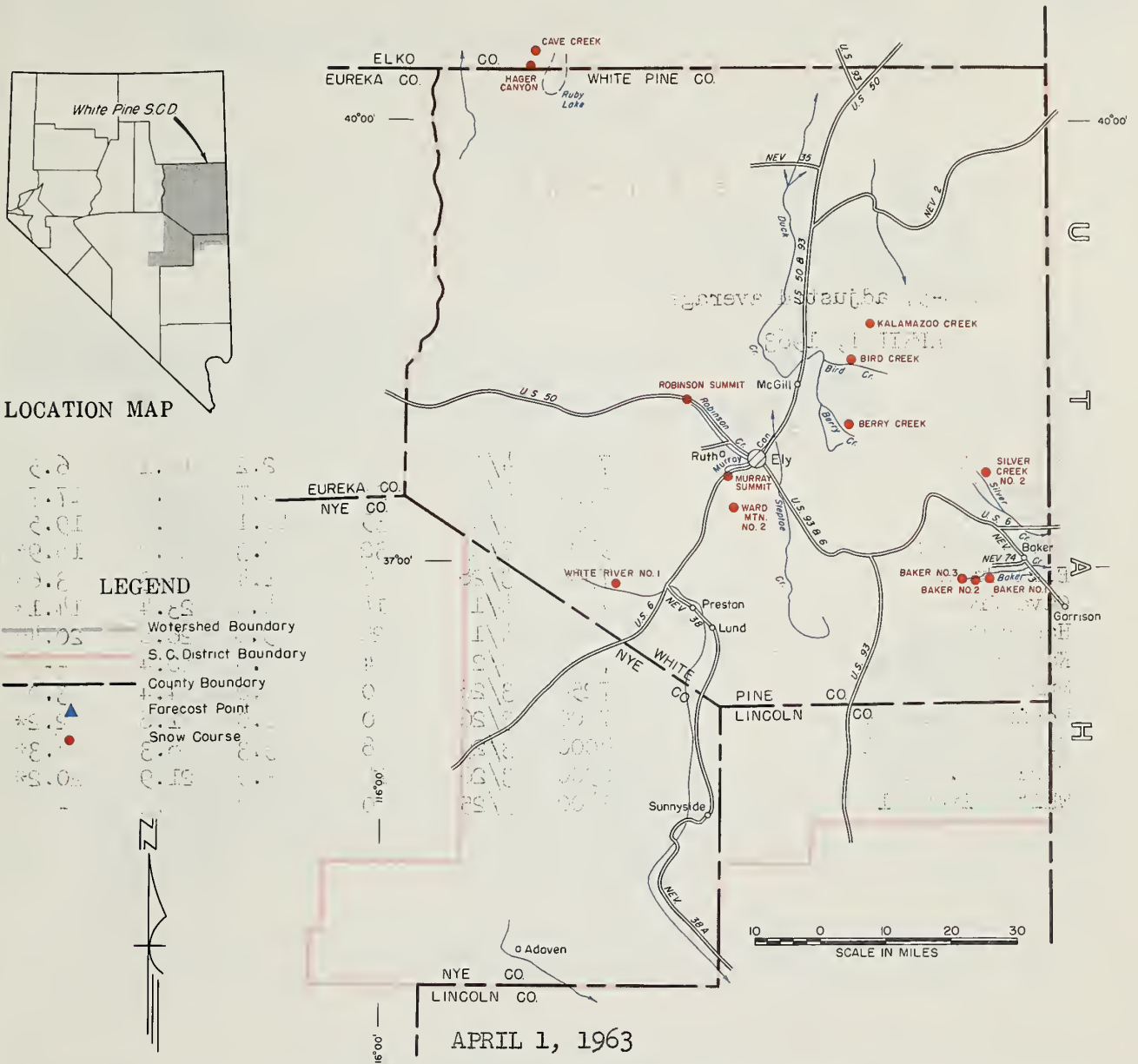
water recharge in this area is estimated to be about 30 percent of average annual precipitation according to the results of the groundwater survey measurements. Groundwater recharge in Nevada averages about 10 percent and the recharge in this area is 30 percent.

Chlorine



# SNOW SURVEY & WATER SUPPLY FORECAST

## WHITE PINE S.C.D., WHITE PINE, LINCOLN & NYE COUNTIES, NEVADA



Extremely poor April-July streamflow is in prospect for water users in White Pine SCD. Water content of the snow in Snake and Schell Creek ranges is much below average varying from 52 percent average at higher elevations to 35-45 percent average at median elevations. The effective snow line is about 7500 feet.

Bird, Berry, Silver, Baker and Steptoe Creeks will have poor streamflow this spring and summer. These streams will peak early and rapidly recede in flow.

Water users should manage their limited water carefully for maximum efficiency.

High mountain soil moisture conditions are reported dry. Median elevation soils are moderately well wetted.

March 1963 snowfall was 175-200 percent of average. Due to the extremely poor March 1 snowpack this added increase did not markedly improve the water supply outlook.

**STORAGE (1,000 Ac. Ft.)**

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE

NOTE :

All averages based on 1943-1957  
15 year period. The forecast period  
is from April 1 through July 31.

\* 1943-57 adjusted average

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE

## SNOW

APRIL 1, 1963

SNOW		CURRENT INFORMATION			PAST RECORD	
SNOW COURSE		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	ELEVATION				LAST YEAR	AVERAGE
Baker #1	7950	4/1	6	2.2	10.1	6.5
Baker #2	8950	4/1	28	8.7	22.3	17.7
Baker #3	9250	4/1	35	10.1	27.0	19.5
Berry Creek	9100	3/29	32	8.3	24.0	18.9*
Bird Creek	7500	3/28	6	1.4	5.3	3.6*
Cave Creek	7500	4/1	14	4.4	23.4	14.1*
Hager Canyon	8000	4/1	28	9.0	26.8	20.4*
Kalamazoo Creek	7400	4/2	4	1.6	10.4	--
Murray Summit	7250	3/26	0	0.0	4.4	3.0
Robinson Summit	7600	3/26	0	0.0	1.8	2.2*
Silver Creek #2	8000	3/29	8	3.3	8.3	8.3*
Ward Mtn. #2	8900	3/26	4	3.9	21.9	20.2*
White River #1	7400	3/25	0	0.0	4.1	--

These streams will peak early and rapidly recede in flow during early summer. Spring delivery bakers and steeped creeks will have poor streamflow this

Workers should manage their limited water carefully for maximum efficiency.

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March 1963 snowfall was 175-200 percent of average. Due to the unusually poor March 1 snowpack this added moisture did not markedly improve the water supply outlook.

8 stairs

MISSISSAUGA, ONT.

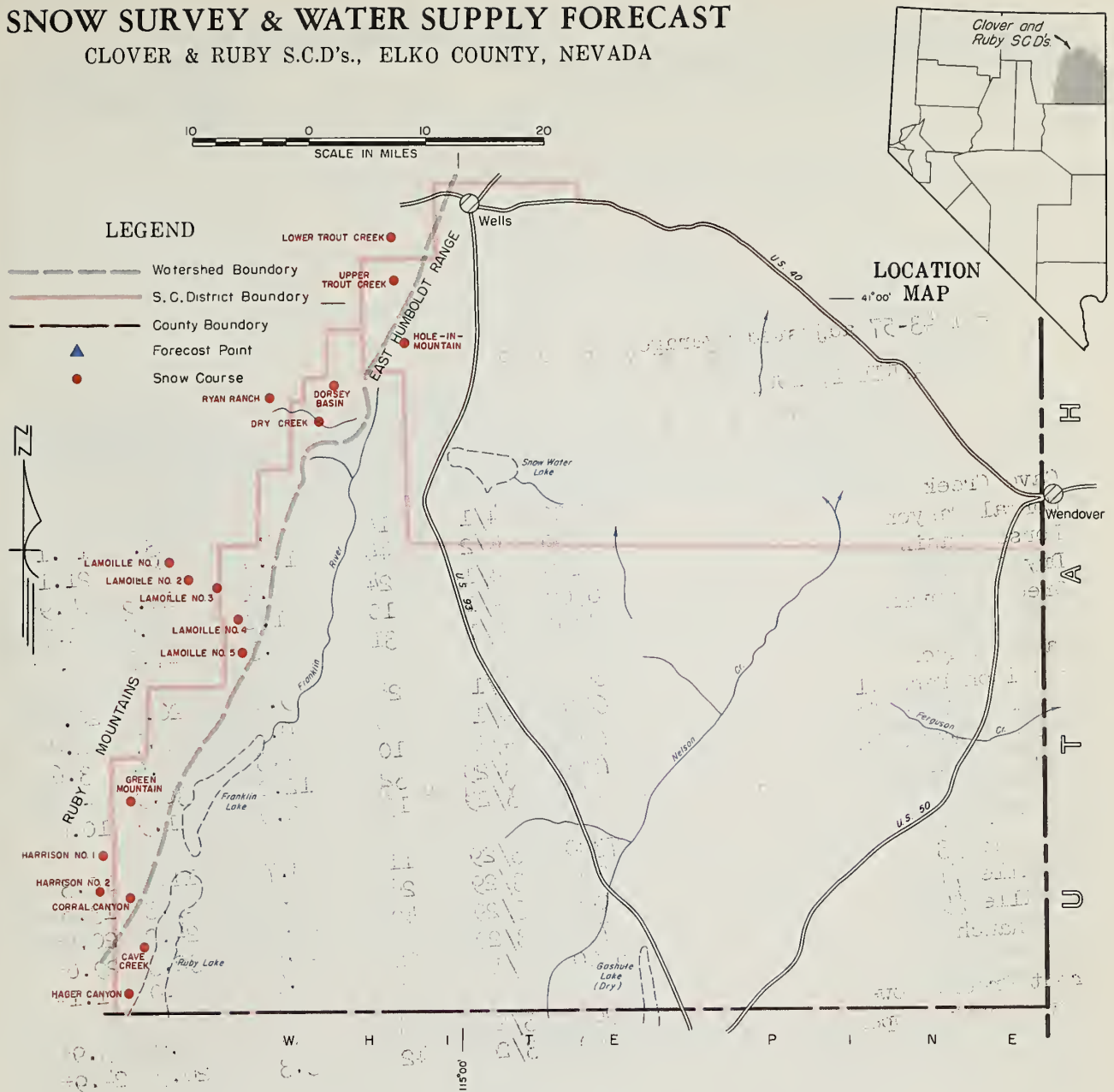
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# SNOW SURVEY & WATER SUPPLY FORECAST

CLOVER & RUBY S.C.D's., ELKO COUNTY, NEVADA



Mountain snowpack in the Ruby Mountains has improved since last month but it is still below normal at 46 percent of average. Snow course measurements at Cave Creek and Hager Canyon on the east slope of the Ruby Mountains above the Ruby Lake Wildlife Refuge revealed a 39 percent of average snowpack.

Streamflow on the east slope of the Rubys will be poor this year with low flows in the early season and none during late season.

Farmers and ranchers in this area will have to exercise good water management this year in order to receive the maximum benefits from the limited water supply.

## STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE

## APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE

## NOTE:

All averages based on 1943-1957  
15 year period. The forecast period  
is from April 1 through July 31.

\* 1943-57 adjusted average

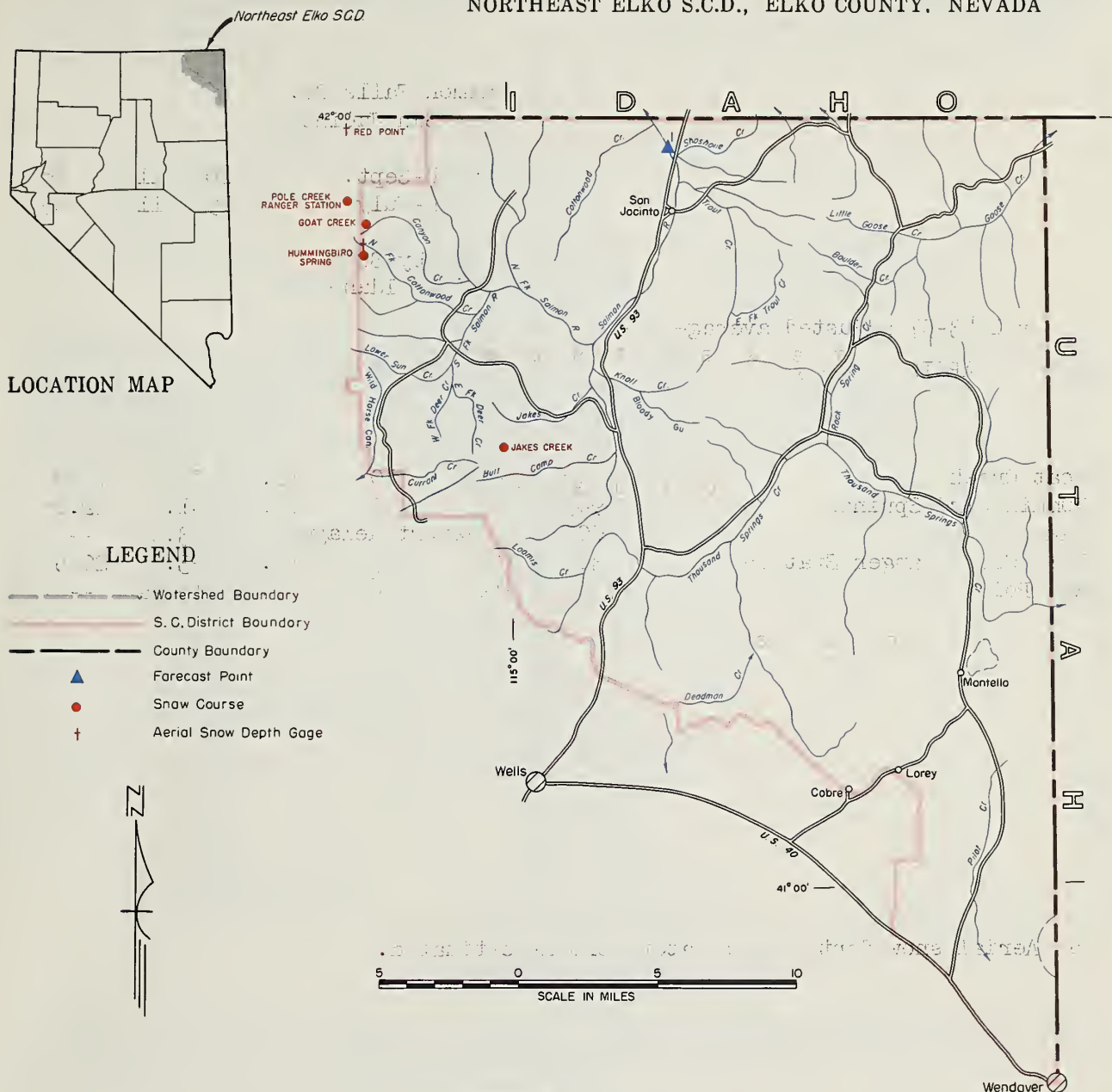
## SNOW

APRIL 1, 1963

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	ELEVATION				LAST YEAR	AVERAGE
Cave Creek	7500	4/1	14	4.4	23.4	14.1*
Corral Canyon	8500	4/2	44	11.5	25.2	21.1*
Dorsey Basin	8100	4/1	24	6.2	18.5	14.9*
Dry Creek	6500	4/1	10	1.2	4.6	3.7*
Green Mountain	8000	4/1	31	8.3	17.3	13.8*
Hager Canyon	8000	4/1	28	9.0	26.8	20.4*
Harrison Pass #1	6600	4/1	8	0.8	5.7	2.8*
Harrison Pass #2	7400	4/1	10	1.3	7.6	3.6*
Hole-in-Mountain	7900	3/29	32	12.0	30.9	--
Lamoille #1	7100	3/29	15	3.9	11.9	10.6*
Lamoille #2	7300	3/29	11	3.7	11.8	10.3*
Lamoille #3	7700	3/29	26	8.8	15.3	13.8*
Lamoille #4	8000	3/29	40	12.3	24.2	20.4*
Lamoille #5	8700	3/29	59	20.0	32.3	29.6*
Ryan Ranch	5800	4/1	7	0.7	0.0	1.1*
Trout Creek, Lower	6900	3/28	6	0.7	6.0	3.9*
Trout Creek, Upper	8500	3/28	42	13.3	26.9	24.9*

# SNOW SURVEY & WATER SUPPLY FORECAST

NORTHEAST ELKO S.C.D., ELKO COUNTY, NEVADA



APRIL 1, 1963

Mountain snowpack in the Northeast Elko SCD is 67 percent of the April 1 average. This low snowpack will result in fair to poor streamflow this year.

Salmon Falls Creek near San Jacinto is forecast to flow 19,000 acre feet during March-July or 22 percent of average.

Soil moisture is deficient at higher elevations and is fair to good at lower elevations.

Range conditions will be fair this year provided spring precipitation is near normal.

Due to the limited supply of water this year farmers and ranchers should exercise care in water management.

## STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE

## NOTE:

All averages based on 1943-1957  
15 year period. The forecast period  
is from April 1 through July 31.

\* 1943-57 adjusted average

SNOW APRIL 1, 1963

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	ELEVATION				LAST YEAR	AVERAGE
Goat Creek	8800	3/27	40	12.8	27.8	18.9*
Hummingbird Springs	8945	3/27	50	15.1	31.5	22.8*
Jakes Creek	7000	Report delayed			3.9	--
Pole Creek Ranger Station	8300	3/27	45	13.8	23.9	20.5*
Red Point	7940	4/1	6	2.0a	15.2a	--

a Aerial snow depth gage; water content estimated.

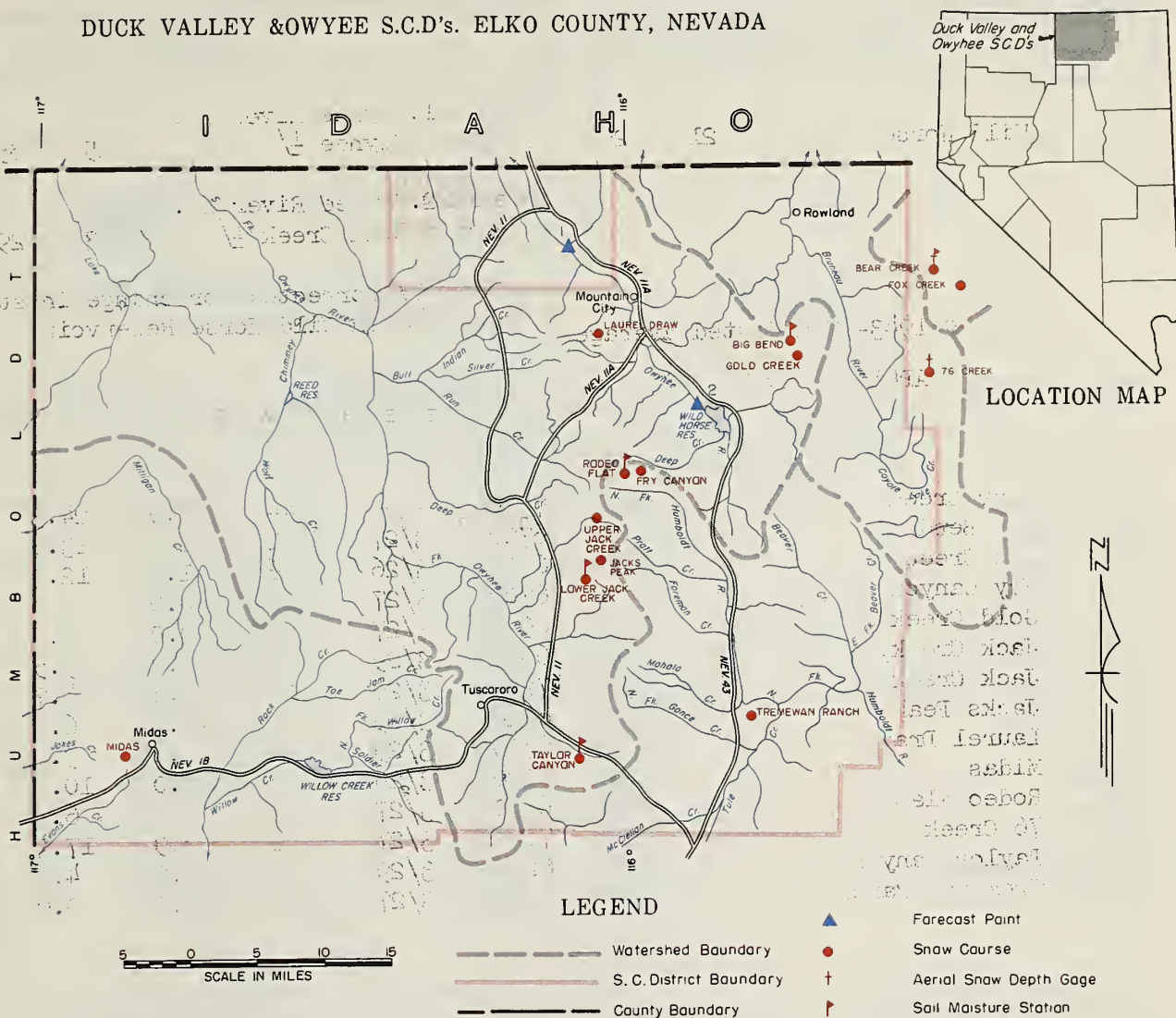
## APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE
1. Salmon Falls Cr. near San Jacinto			
March-Sept.	20	118	88
March-July	19	115	85
Issued by SCS Boise, Idaho			



# SNOW SURVEY & WATER SUPPLY FORECAST

DUCK VALLEY & OWYHEE S.C.D.'s. ELKO COUNTY, NEVADA



## LEGEND

5 0 5 10 15  
SCALE IN MILES

Watershed Boundary  
S.C. District Boundary  
County Boundary

Forecast Point  
Snow Course  
Aerial Snow Depth Gage  
Soil Moisture Station

APRIL 1, 1963

April 1, 1963 snow surveys in the Duck Valley and Owyhee SCD's indicate that mountain snow is at record low. Spring-summer streamflow will be extremely poor this year and quite similar to 1961.

Water users served from Wild Horse Reservoir should have a reasonably adequate irrigation season water supply. Wild Horse currently holds 21,000 acre feet.

Wild Horse will not fill to capacity, since only 3,000 acre feet of water is forecast to flow during April-July at Owyhee near Gold Creek.

Downstream at Owyhee the April-July streamflow is forecast at 15,000 acre feet or 17 percent of the 1943-57 average.

Water users should carefully manage their limited water supply. Of necessity, Wild Horse Reservoir water will have to be extensively used. Any water that can be saved by good water management practices may be needed next year as carryover storage.

## STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE
Wild Horse	33	21	24	17

## NOTE:

All averages based on 1943-1957  
15 year period. The forecast period  
is from April 1 through July 31.

\* 1943-57 adjusted average

## APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE
1. Owyhee River nr. Owyhee <u>1/</u>	15	85	86
2. Owyhee River nr. Gold Creek <u>1/</u>	3	29	27
<u>1/</u> Corrected for change in storage in Wild Horse Reservoir			

## SNOW APRIL 1, 1963

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	ELEVATION				LAST YEAR	AVERAGE
Bear Creek	7800	3/26	44	12.9	24.3	21.5*
Big Bend	6700	3/27	T	T	13.6	10.5
Fox Creek	6800	3/26	6	1.4	12.9	9.1*
Fry Canyon	6700	3/27	0	0.0	9.4	9.2
Gold Creek	6600	3/27	0	0.0	8.4	6.0
Jack Creek, Lower	6800	3/29	0	0.0	5.5	2.5
Jack Creek, Upper	7250	3/29	14	3.4	14.7	10.9
Jacks Peak	8420	3/29	53	14.7	36.4	25.4*
Laurel Draw	6700	3/29	0	0.0	9.8	--
Midas	7200	3/29	0	0.0	10.2	1.9*
Rodeo Flat	6800	3/27	T	T	6.8	8.7
76 Creek	7100	3/27	11	3.9	17.3	15.7*
Taylor Canyon	6200	3/29	0	0.0	4.8	3.5
Tremewan Ranch	5700	3/27	0	0.0	0.0	0.8

## AVAILABLE SOIL MOISTURE

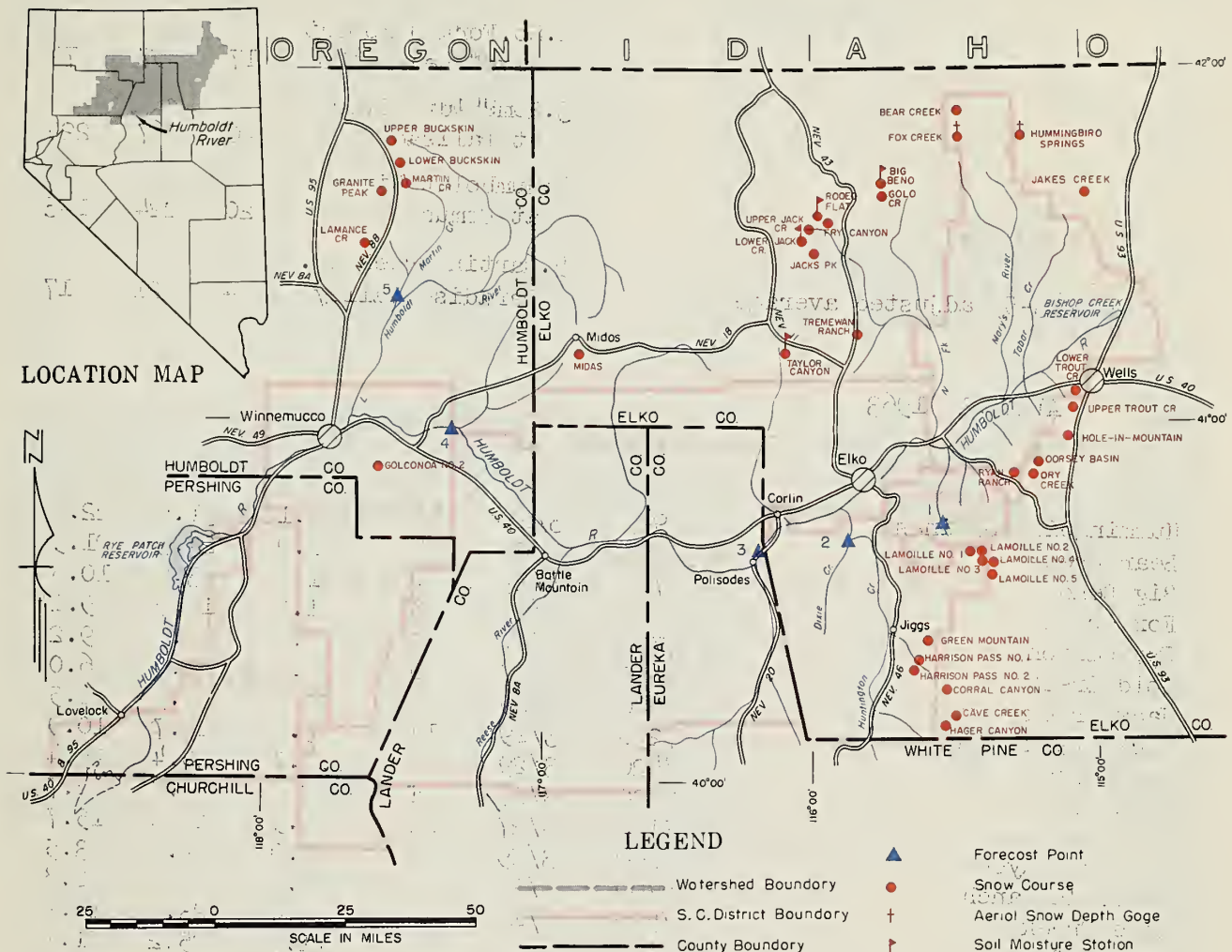
STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH (Inches)	AVAILABLE CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
Bear Creek	7800	72	16.9	3/26	7.8	9.6	8.6
Big Bend	6700	48	16.7	3/27	16.0	14.9	15.0
Jack Creek, Lower	6800	48	8.7	3/29	8.3	8.5	8.6
Rodeo Flat	6800	42	11.0	3/27	11.0	11.0	11.0
Taylor Canyon	6200	48	15.1	3/29	12.6	14.8	13.4



# SNOW SURVEY & WATER SUPPLY FORECAST

## HUMBOLDT RIVER

CHURCHILL, ELKO, EUREKA, HUMBOLDT, LANDER & PERSHING COUNTIES, NEVADA



APRIL 1, 1963

The 1963 irrigation season water supply outlook for Humboldt River water users is very poor. Except for the high elevation snow courses in the basin April 1, 1963 water content of snow is record low. In aggregate this is one of the poorest Humboldt basin snowpacks since snow surveys began.

The Humboldt at Palisade is forecast to flow 40,000 during April-July which is 18 percent of average. At Comus the Humboldt is forecast to flow 20,000 acre feet (14 percent of average). South Fork Humboldt near Elko should flow 17,000 acre feet or 23 percent of its April-July average. Lamoille near Lamoille with a "fair" snowpack is predicted to flow 15,000 acre feet which is 54 percent of average.

Rye Patch Reservoir gained 4,000 acre feet during March and held 84,000 acre feet on March 31, 1963 (73 percent of average). The Pershing County Water Conservation District has set a  $1\frac{1}{2}$  foot water allotment.

Humboldt basin water users are urged to review the "water stretching" measures found effective in the 1959-61 drought years and readopt any that are feasible.

## STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE
Rye Patch	179	84	47	115

## NOTE:

All averages based on 1943-1957  
15 year period. The forecast period  
is from April 1 through July 31.

\* 1943-57 adjusted average

## APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST		MEASURED	
	THIS YEAR	LAST YEAR	LAST YEAR	AVERAGE
1.Lamoille Creek near Lamoille	15	32		28
2.So.Fork Humboldt River near Elko	17	97		74
3.Humboldt River at Palisade	40	267		225
4.Humboldt River at Comus	20	224		143
5.Martin Creek nr. Paradise Valley	4	21		17

## SNOW

APRIL 1, 1963

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (inches)	WATER CONTENT (inches)	WATER CONTENT (inches)	
NAME	ELEVATION				LAST YEAR	AVERAGE
Hummingbird Springs	8945	3/27	50	15.1	31.5	22.8*
Bear Creek	7800	3/26	44	12.9	24.3	21.5*
Big Bend	6700	3/27	T	T	13.6	10.5
Fox Creek	6800	3/26	6	1.4	12.9	9.1*
Fry Canyon	6700	3/27	0	0.0	9.4	9.2
Gold Creek	6600	3/27	0	0.0	8.4	6.0
Jack Creek, Lower	6800	3/29	T	T	5.5	2.5
Jack Creek, Upper	7250	3/29	14	3.4	14.7	10.9
Jacks Peak	8420	3/29	53	14.7	36.4	25.4*
Rodeo Flat	6800	3/27	T	T	6.8	8.7
76 Creek	7100	3/27	11	3.9	17.3	15.7*
Taylor Canyon	6200	3/29	0	0.0	4.8	3.5
Tremewan Ranch	5700	3/27	0	0.0	0.0	0.8
Cave Creek	7500	4/1	14	4.4	23.4	14.1*
Corral Canyon	8500	4/2	44	11.5	25.2	21.1*
Dorsey Basin	8100	4/1	24	6.2	18.5	14.9*
Dry Creek	6500	4/1	10	1.2	4.6	3.7*
Green Mountain	8000	4/1	31	8.3	17.3	13.8*
Hager Canyon	8000	4/1	28	9.0	26.8	20.4*
Harrison Pass #1	6600	4/1	8	0.8	5.7	2.8*
Harrison Pass #2	7400	4/1	10	1.3	7.6	3.6*
Hole-in-Mountain	7900	3/29	32	12.0	30.9	--
Lamoille #1	7100	3/29	15	3.9	11.9	10.6*
Lamoille #2	7300	3/29	11	3.7	11.8	10.3*
Lamoille #3	7700	3/29	26	8.8	15.3	13.8*
Lamoille #4	8000	3/29	40	12.8	24.2	20.4*
Lamoille #5	8700	3/29	59	20.0	32.3	29.6*
Ryan Ranch	5800	4/1	7	0.7	0.0	1.1
Trout Creek, Lower	6900	3/28	6	0.7	6.0	3.9*
Trout Creek, Upper	8500	3/28	42	13.3	26.9	24.9*
Midas	7200	3/29	0	0.0	10.2	1.9*
Golconda #2	6000	3/29	0	0.0	9.5	--
Buckskin, Lower	6700	3/26	0	0.0	11.7	8.5*
Buckskin, Upper	7200	3/26	5	2.4	15.6	9.2*
Granite Peak	7800	3/27	32	10.4	19.7	11.2*
Lamance Creek	6000	3/27	0	0.0	14.8	7.1*
Martin Creek	6700	3/27	0	0.0	15.2	8.5*



AUSTIN & EUREKA S.C.D's., CHURCHILL, EUREKA  
& LANDERS COUNTIES, NEVADA

AUSTIN & EUREKA S.C.D's., CHURCHILL, EUREKA  
& LANDERS COUNTIES, NEVADA



Streamflow in this area will be poor this spring and summer with low flows and little late season water.

Plate 13

## STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE

## NOTE:

All averages based on 1943-1957  
15 year period. The forecast period  
is from April 1 through July 31.

\* 1943-57 adjusted average

## APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE

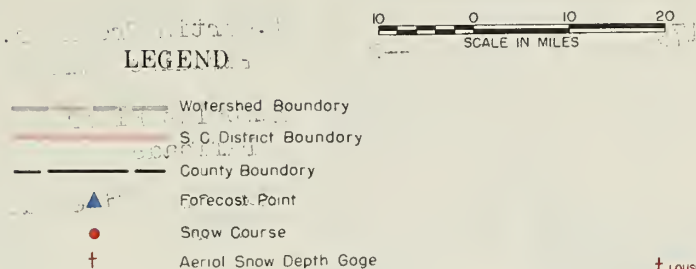
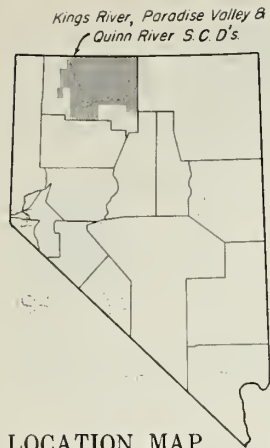
## SNOW

APRIL 1, 1963

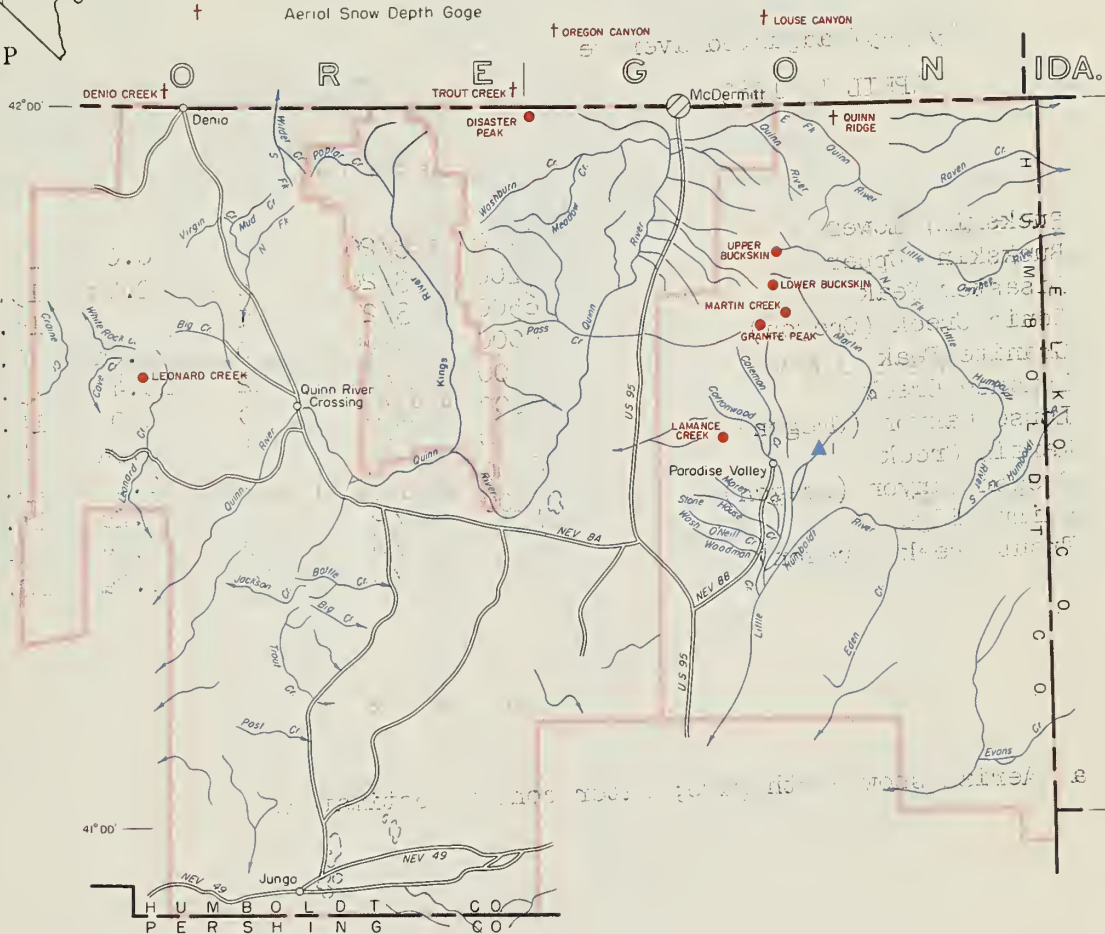
SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	ELEVATION				LAST YEAR	AVERAGE
Big Creek Camp Ground	6600	4/1	T	T	0.4	1.6
Big Creek Mine	7600	4/1	5	1.0	7.7	3.7*
Upper Big Creek	8000	4/1	9	2.5	10.8	8.4*
Lower Corral	7500	4/2	1	0.0	1.6	1.4*
Upper Corral	8500	4/2	0	0.7	10.3	3.6*

# SNOW SURVEY & WATER SUPPLY FORECAST

## KINGS RIVER, PARADISE VALLEY & QUINN RIVER S.C.D's., HUMBOLDT COUNTY, NEVADA



LOCATION MAP



APRIL 1, 1963

Mountain snowpack in the Kings River, Paradise Valley and Quinn River SCD's is poor this year with little to no increase over last month.

Streamflow in this area will be extremely poor this year. Martin Creek is forecast to flow 4,000 acre feet or 24 percent of average. Other streams in the Santa Rosas are expected to have similar flows.

Farmers and ranchers are encouraged to utilize maximum water saving practices this year due to extremely poor runoff conditions expected.

STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE
Rye Patch	179	84	47	115

NOTE:

All averages based on 1943-1957  
15 year period. The forecast period  
is from April 1 through July 31.

\* 1943-57 adjusted average

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE
1.Martin Creek nr. Paradise Valley	4	21	17
Humboldt River at Palisade	40	267	225
Humboldt River at Comus	20	224	143

SNOW APRIL 1, 1963

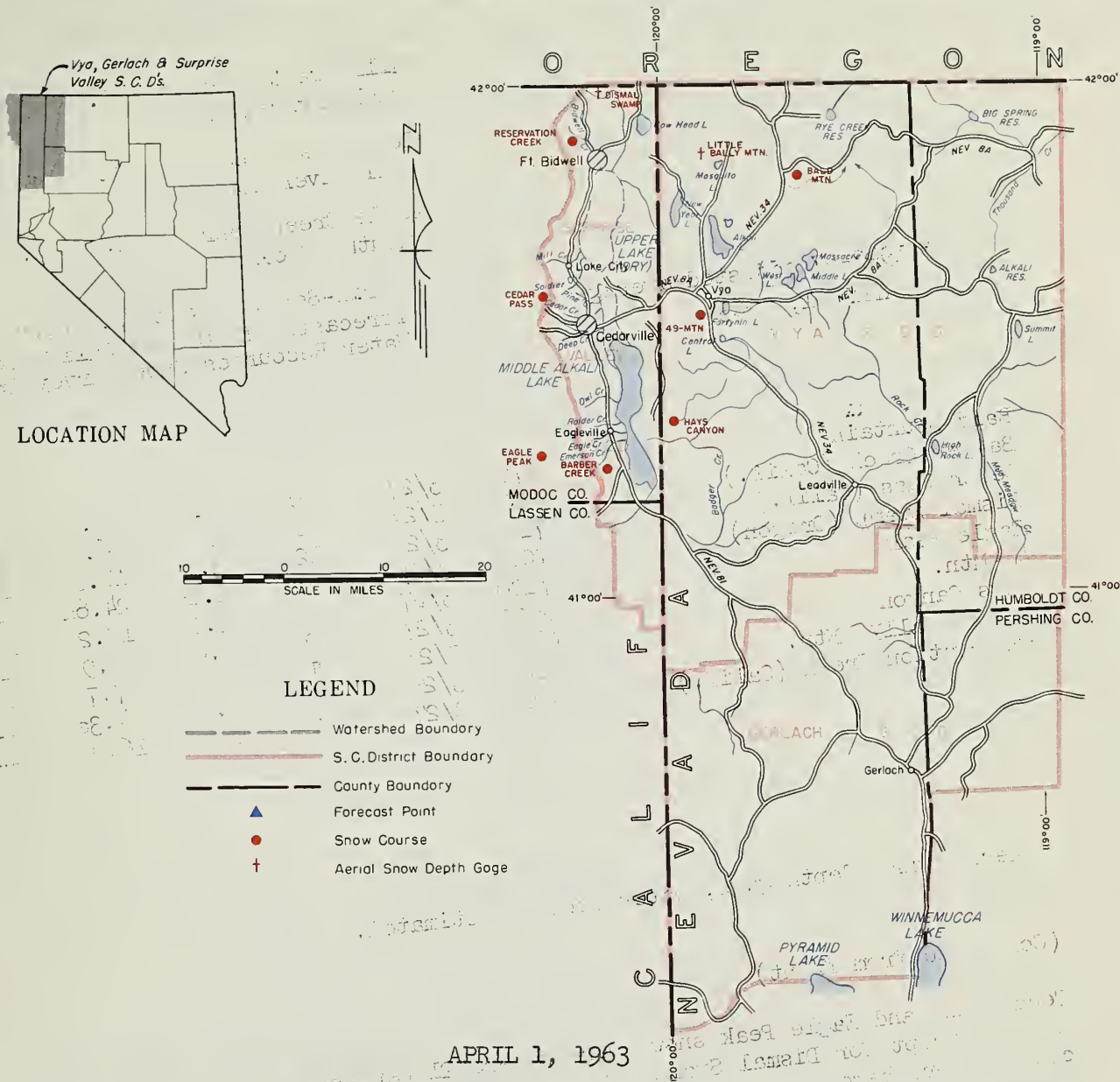
SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	ELEVATION				LAST YEAR	AVERAGE
Buckskin, Lower	6700	3/26	0	0.0	11.7	8.5*
Buckskin, Upper	7200	3/26	5	2.4	15.6	9.2*
Disaster Peak	6500	3/27	T	T	18.8	11.5*
Denio Creek (Oregon)	6000	3/25	0	0.0a	0.0a	--
Granite Peak	7800	3/27	32	10.4	19.7	11.2*
Lamance Creek	6000	3/27	0	0.0	14.8	7.1*
Louse Canyon (Oregon)	6440	4/3	1	0.2a	4.2a	--
Martin Creek	6700	3/27	0	0.0	15.2	8.5*
Oregon Canyon (Oregon)	7200	4/3	1	0.2a	11.2a	--
Quinn Ridge	6300	4/3	0	0.0a	3.8a	--
Trout Creek (Oregon)	7800	4/3	18	6.0a	12.6a	--

a Aerial snow depth gage; water content estimated.



# SNOW SURVEY & WATER SUPPLY FORECAST

## VYA & GERLACH S.C.D.'S., NEVADA and SURPRISE VALLEY S.C.D., CALIFORNIA



APRIL 1, 1963

March snowfall did not markedly improve the spring-summer water supply outlook in the Surprise Valley area. The coordinated streamflow forecasts of the California Department of Water Resources Snow Survey Unit and the Soil Conservation Service remain unchanged from last month values.

Mill Creek is forecast to flow 2,600 acre feet or 43 percent of the 1943-57 April-September average; Deep Creek, 1,800 acre feet (43 percent average) and Eagle Creek, 2,800 acre feet (48 percent average).

Mountain soils are well wetted. Summer thundershowers which commonly occur in the Warner range could improve the water supply outlook.

The typical pattern of streamflow in this area in a below average year is for streamflow to drop off rapidly by June 1 unless heavy summer rainfall occurs.

Range conditions should be good during the early spring due to the heavy fall and midwinter rainfall.

Plate 15

(Over)

## STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	AVERAGE

## NOTE:

All averages based on 1943-1957  
15 year period. The forecast period  
is from April 1 through July 31.

\* 1943-57 adjusted average

APRIL 1, 1963

## APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	MEASURED	
		LAST YEAR	AVERAGE
Mill Creek above all diversions	2.6	3.6	6.1
Deep Creek above all diversions	1.8	2.4	4.2
Eagle Creek near mouth of canyon	2.8	4.1	5.8
April-Sept. forecasts. Coordinated forecasts of SCS and Calif. Dept. Water Resources Snow Survey Units			

## SNOW

SNOW COURSE		CURRENT INFORMATION			PAST RECORD	
		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	ELEVATION				LAST YEAR	AVERAGE
Bald Mountain	6720	3/27	0	0.0	8.0	3.1
Barber Creek (Calif.)	6500	3/27	T	T	16.5	--
Cedar Pass (Calif.)	7100	3/29	12	3.7	18.2	14.1*
Dismal Swamp (Oregon)	7000	3/25	6	1.8a	24.8a	--
Eagle Peak	7200	3/27	8	3.2	17.2	17.9
49-Mtn.	6000	3/27	0	0.0	7.9	--
Hays Canyon	6400	3/27	T	T	7.7	--
Little Bally Mtn.	6000	3/25	0	0.0a	4.3a	--
Reservation Creek (Calif.)	5900	3/27	T	T	16.9	--

a Aerial snow depth gage, water content estimated.

(Continued from front)

Cedar Pass and Eagle Peak snow courses were 21 percent of average on April 1, 1963. Except for Dismal Swamp with 1.8 inches of water all the other snow courses were bare.

Water users in the Vya and Surprise Valley SCD's should manage the water for maximum use efficiency.

## Agencies Cooperating in Collecting Data Contained in this Bulletin

### FEDERAL

- Agricultural Research Service
- Army
- Bureau of Reclamation
- Fish and Wildlife Service
- Forest Service
- Geological Survey
- Navy
- Soil Conservation Service
- Weather Bureau

### STATE

- California Cooperative Snow Surveys
- California Department of Water Resources
- Colorado River Commission of Nevada
- Nevada Association of Soil Conservation Districts
- Nevada Cooperative Snow Surveys
- Nevada Department of Conservation & Natural Resources
  - Division of Water Resources
  - Nevada State Forester-Firewarden
- Oregon Cooperative Snow Surveys
- University of Nevada
- White Mountain Research Station, Univ. of California

### PRIVATE

- Amalgamated Sugar Company
- Kennecott Copper Corporation
- Nevada Irrigation District
- Owyhee Project North Board of Control
- Owyhee Project South Board of Control
- Pacific Gas & Electric Company
- Pershing County Water Conservation District
- Sierra Pacific Power Company
- Squaw Valley Development Company
- Truckee-Carson Irrigation District
- Virginia City Water Company
- Walker River Irrigation District
- Washoe County Water Conservation District

Other organizations and individuals furnish valuable information for the snow survey reports. Their Cooperation is gratefully acknowledged.

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with the Snow Survey"*